National Center for Science and Engineering Statistics

Higher Education Research and Development: Fiscal Year 2020

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General Notes

This report provides data from the FY 2020 Higher Education Research and Development (HERD) Survey. The survey is an annual census of institutions that expended at least $150,000 in separately accounted for research and development in the fiscal year.

The tables present data on R&D expenditures at higher education institutions across all academic disciplines and include R&D expenditures by institution, R&D field, geographic area, source of funds, type of R&D (basic research, applied research, and experimental development), cost categories (salaries, software, equipment, and indirect costs), and trends over time.

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TABLE 1

Higher education R&D expenditures, by source of funds: FYs 1953–2020

(Dollars in millions)

Fiscal year	All R&D expenditures[a]	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources[b]
1953[c]	255	138	37	35	19	26
1954	290	160	42	38	22	28
1955[c]	312	169	47	41	25	30
1956[c]	372	213	53	43	29	34
1957[c]	410	229	60	49	34	38
1958	456	254	68	53	39	42
1959[c]	526	306	76	58	39	47
1960[c]	646	405	85	64	40	52
1961[c]	763	500	95	70	40	58
1962[c]	904	613	106	79	40	66
1963[c]	1,081	760	118	89	41	73
1964	1,275	917	132	103	40	83
1965[c]	1,474	1,073	143	124	41	93
1966	1,715	1,261	156	148	42	108
1967[c]	1,921	1,409	164	181	48	119
1968	2,149	1,572	172	218	55	132
1969[c]	2,225	1,600	197	223	60	145
1970	2,335	1,647	219	243	61	165
1971[c]	2,500	1,724	255	274	70	177
1972	2,630	1,795	270	305	74	187
1973	2,884	1,985	295	318	84	202
1974	3,023	2,032	307	370	96	218
1975	3,409	2,288	332	417	113	259
1976	3,729	2,512	364	446	123	285
1977	4,067	2,726	374	514	139	314
1978[d]	4,625	3,059	414	623	170	359
1979	5,366	3,598	472	735	193	368
1980	6,063	4,098	491	835	236	403
1981	6,847	4,571	546	1,004	291	435
1982	7,324	4,768	616	1,111	337	491
1983	7,882	4,989	626	1,302	389	576
1984	8,620	5,431	690	1,411	475	613
1985	9,687	6,064	752	1,617	560	694
1986	10,928	6,712	915	1,869	700	732
1987	12,153	7,343	1,023	2,168	790	828
1988	13,463	8,193	1,106	2,356	872	935
1989	14,979	8,993	1,224	2,698	994	1,071
1990	16,290	9,640	1,324	3,006	1,127	1,191
1991	17,589	10,238	1,474	3,367	1,204	1,307
1992	18,821	11,095	1,491	3,548	1,279	1,409
1993	19,954	11,960	1,559	3,589	1,360	1,486
1994	21,035	12,654	1,555	3,828	1,423	1,575
1995	22,179	13,337	1,690	4,048	1,489	1,614
1996	23,055	13,847	1,812	4,172	1,606	1,619
1997	24,380	14,321	1,910	4,699	1,737	1,712
1998	25,867	15,159	1,945	5,004	1,889	1,871
1999	27,544	16,112	2,022	5,382	2,033	1,995

TABLE 1

Higher education R&D expenditures, by source of funds: FYs 1953–2020

(Dollars in millions)

Fiscal year	All R&D expenditures[a]	Source of funds				
		Federal government	State and local government	Institution funds	Business	All other sources[b]
2000	30,084	17,548	2,200	5,925	2,156	2,255
2001	32,801	19,227	2,320	6,614	2,218	2,422
2002	36,383	21,856	2,504	7,133	2,191	2,698
2003[e]	41,470	25,307	2,645	7,663	2,161	2,856
2004[e]	44,839	28,304	2,879	7,752	2,129	2,851
2005[e]	47,535	29,957	2,940	8,265	2,291	3,092
2006[e]	49,645	30,909	2,966	9,062	2,401	3,198
2007[e]	51,590	31,241	3,151	9,718	2,675	3,521
2008[e]	54,114	32,101	3,438	10,378	2,869	3,916
2009[e]	57,288	33,443	3,647	11,148	3,197	4,294
2010	61,287	37,478	3,887	11,943	3,202	4,777
2011	65,274	40,768	3,851	12,580	3,183	4,892
2012	65,873	40,217	3,744	13,625	3,279	5,007
2013	67,145	39,510	3,706	14,974	3,515	5,440
2014	67,351	38,032	3,916	15,781	3,734	5,889
2015	68,694	37,911	3,864	16,638	4,009	6,273
2016	71,911	38,858	4,053	17,944	4,219	6,836
2017	75,291	40,320	4,186	18,886	4,439	7,460
2018	79,177	41,937	4,326	20,221	4,726	7,966
2019	83,689	44,560	4,520	21,137	5,067	8,405
2020	86,435	46,220	4,605	21,980	5,189	8,441

S&E = science and engineering.

[a] Totals for FYs 1953–2002 represent R&D expenditures in S&E fields only. From FY 2003 through FY 2009, some institution totals for all R&D expenditures may be lower-bound estimates because the National Center for Science and Engineering Statistics did not attempt to estimate for nonresponse on the non-S&E R&D expenditures item prior to FY 2010.

[b] Prior to FY 2010, R&D expenditures from nonprofit organizations were collected under all other sources. Beginning in FY 2010, these data were collected separately, and FY 2020 data included $5,758 million in R&D expenditures from nonprofit sources.

[c] Data are estimated based on data collected in surrounding years. Between FY 1953 and FY 1971, surveys were conducted only in years FY 1954, FY 1958, FY 1964, FY 1966, FY 1968, and FY 1970.

[d] FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

[e] Source of fund detail data do not sum to total for FYs 2003–09 because data by source were collected for S&E fields only. Total non-S&E expenditures were collected in a separate item.

Note(s):
Because of rounding, detail may not add to total.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 2

Higher education R&D expenditures, by source of funds and survey form: FYs 2010–20

(Dollars in thousands)

Survey form and fiscal year	All R&D expenditures	Source of funds								
		Federal government	State and local government	Institution funds				Business	Nonprofit organizations	All other sources
				Total	Institutionally financed research	Cost sharing	Unrecovered indirect costs			
All institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,872,505	40,216,862	3,743,834	13,625,176	7,723,845	1,289,013	4,612,318	3,279,179	4,037,021	970,433
2013	67,144,666	39,510,280	3,705,597	14,973,909	8,906,778	1,360,580	4,706,551	3,514,750	3,902,646	1,537,484
2014	67,351,146	38,031,837	3,915,607	15,781,083	9,636,685	1,380,434	4,763,964	3,733,688	3,977,753	1,911,178
2015	68,694,164	37,910,989	3,864,085	16,637,890	10,445,258	1,352,515	4,840,117	4,008,532	4,235,520	2,037,148
2016	71,910,615	38,857,606	4,053,355	17,944,172	11,447,240	1,459,394	5,037,538	4,219,432	4,631,968	2,204,082
2017	75,291,024	40,319,837	4,186,498	18,886,486	12,131,501	1,561,950	5,193,035	4,438,630	5,156,687	2,302,886
2018	79,176,651	41,936,716	4,326,317	20,220,856	13,195,811	1,519,559	5,505,486	4,726,316	5,455,356	2,511,090
2019	83,689,270	44,560,460	4,520,368	21,136,783	14,032,073	1,566,094	5,538,616	5,066,513	5,702,936	2,702,210
2020	86,435,054	46,220,254	4,605,307	21,979,735	14,597,258	1,635,950	5,746,527	5,189,184	5,758,485	2,682,089
Short form institutions[a]										
2012	143,498	74,639	10,263	37,778	32,515	2,474	2,789	5,207	14,611	1,000
2013	131,528	64,349	9,175	37,529	32,116	2,360	3,053	4,221	14,000	2,254
2014	152,056	70,719	12,584	45,707	40,561	1,720	3,426	5,852	13,826	3,368
2015	144,282	64,187	9,378	45,816	41,178	1,228	3,410	5,695	15,036	4,170
2016	142,766	68,991	9,893	39,967	34,391	2,182	3,394	5,696	14,099	4,120
2017	143,880	71,040	11,413	36,930	32,208	1,890	2,832	4,479	16,088	3,930
2018	150,382	73,579	13,486	41,807	36,360	2,356	3,091	5,235	13,013	3,262
2019	155,122	77,934	9,720	43,217	37,102	1,928	4,187	4,481	13,629	6,141
2020	138,876	76,425	8,674	32,945	27,247	2,267	3,431	4,259	13,247	3,326
Standard form institutions										
2010	61,286,610	37,477,582	3,887,106	11,942,532	6,198,189	1,083,275	4,661,068	3,201,904	3,729,655	1,047,831
2011	65,274,393	40,768,251	3,851,323	12,580,320	6,816,187	1,153,646	4,610,487	3,182,671	3,853,950	1,037,878
2012	65,729,007	40,142,223	3,733,571	13,587,398	7,691,330	1,286,539	4,609,529	3,273,972	4,022,410	969,433
2013	67,013,138	39,445,931	3,696,422	14,936,380	8,874,662	1,358,220	4,703,498	3,510,529	3,888,646	1,535,230
2014	67,199,090	37,961,118	3,903,023	15,735,376	9,596,124	1,378,714	4,760,538	3,727,836	3,963,927	1,907,810
2015	68,549,882	37,846,802	3,854,707	16,592,074	10,404,080	1,351,287	4,836,707	4,002,837	4,220,484	2,032,978
2016	71,767,849	38,788,615	4,043,462	17,904,205	11,412,849	1,457,212	5,034,144	4,213,736	4,617,869	2,199,962
2017	75,147,144	40,248,797	4,175,085	18,849,556	12,099,293	1,560,060	5,190,203	4,434,151	5,140,599	2,298,956
2018	79,026,269	41,863,137	4,312,831	20,179,049	13,159,451	1,517,203	5,502,395	4,721,081	5,442,343	2,507,828
2019	83,534,148	44,482,526	4,510,648	21,093,566	13,994,971	1,564,166	5,534,429	5,062,032	5,689,307	2,696,069
2020	86,296,178	46,143,829	4,596,633	21,946,790	14,570,011	1,633,683	5,743,096	5,184,925	5,745,238	2,678,763

[a] Beginning with FY 2012, institutions reporting less than $1 million in total R&D expenditures completed a shorter version of the survey questionnaire. Prior to FY 2012, all institutions completed the standard form survey questionnaire.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 3

Higher education R&D expenditures, by source of funds, R&D field, and survey population: FY 2020

(Dollars in thousands)

Source of funds and R&D field	All institutions	Survey population	
		Short form	Standard form
All R&D expenditures	86,435,054	138,876	86,296,178
Federal government	46,220,254	76,425	46,143,829
State and local government	4,605,307	8,674	4,596,633
Institution funds	21,979,735	32,945	21,946,790
Institutionally financed research	14,597,258	27,247	14,570,011
Cost sharing	1,635,950	2,267	1,633,683
Unrecovered indirect costs	5,746,527	3,431	5,743,096
Business	5,189,184	4,259	5,184,925
Nonprofit organizations	5,758,485	13,247	5,745,238
All other sources	2,682,089	3,326	2,678,763
Science	67,676,060	108,253	67,567,807
Computer and information sciences	2,928,917	5,768	2,923,149
Geosciences, atmospheric sciences, and ocean sciences	3,289,490	8,239	3,281,251
Life sciences	49,686,304	45,796	49,640,508
Mathematics and statistics	802,304	3,329	798,975
Physical sciences	5,685,418	18,372	5,667,046
Psychology	1,360,784	3,703	1,357,081
Social sciences	2,966,569	19,231	2,947,338
Sciences nec	956,274	3,815	952,459
Engineering	13,699,307	6,551	13,692,756
Non-S&E	5,059,687	24,072	5,035,615

nec = not elsewhere classified. S&E = science and engineering.

Note(s):
Institutions are included in the short form population if they reported less than $1 million in total R&D expenditures during the previous fiscal year.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 4

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, by source of funds and survey population: FY 2020

(Dollars in thousands)

Source	All institutions	Survey population	
		Short form	Standard form
All R&D received	3,839,218	17,819	3,821,399
Federally financed	3,436,130	15,574	3,420,556
Nonfederally financed	403,088	2,245	400,843
All R&D passed through	3,868,303	2,158	3,866,145
Federally financed	3,406,210	1,778	3,404,432
Nonfederally financed	462,093	380	461,713

Note(s):
Institutions are included in the short form population if they reported less than $1 million in total R&D expenditures during the previous fiscal year.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	86,435,054	46,220,254	4,605,307	21,979,735	5,189,184	5,758,485	2,682,089
Johns Hopkins U.[a]	1	3,110,494	2,682,410	5,707	157,227	105,906	155,728	3,516
U. Michigan, Ann Arbor	2	1,673,862	884,880	2,074	607,120	96,044	75,131	8,613
U. California, San Francisco	3	1,651,073	676,331	32,635	418,048	120,488	231,371	172,200
U. Pennsylvania	4	1,579,364	721,308	19,955	544,997	176,969	112,832	3,303
U. Washington, Seattle	5	1,456,902	1,024,195	27,087	111,141	57,698	198,220	38,561
U. California, San Diego	6	1,403,735	727,289	45,233	290,347	109,943	110,299	120,624
U. California, Los Angeles	7	1,392,941	655,030	81,216	302,597	82,905	194,946	76,247
U. Wisconsin-Madison	8	1,363,931	632,558	103,607	435,653	29,589	122,835	39,689
Harvard U.	9	1,239,983	605,603	2,351	391,127	49,561	171,566	19,775
Stanford U.	10	1,203,950	751,414	26,257	132,235	114,967	168,843	10,234
Duke U.	11	1,196,638	707,746	938	151,876	205,719	104,685	25,674
Cornell U.	12	1,190,063	562,021	92,178	232,628	56,706	119,570	126,960
U. North Carolina, Chapel Hill	13	1,159,725	706,145	8,129	301,817	49,974	76,679	16,981
Texas A&M U., College Station and Health Science Center	14	1,130,803	517,489	205,190	291,325	35,783	53,539	27,477
U. Pittsburgh, Pittsburgh	15	1,105,532	689,273	11,600	254,704	29,764	65,940	54,251
U. Maryland[b]	16	1,103,062	689,125	39,195	282,188	28,881	57,662	6,011
Yale U.	17	1,094,135	585,170	5,102	339,695	72,714	86,548	4,906
U. Texas M. D. Anderson Cancer Center	18	1,051,297	186,488	291,619	209,905	194,528	31,021	137,736
Georgia Institute of Technology	19	1,048,988	790,518	107,480	71,373	63,120	14,200	2,297
U. Minnesota, Twin Cities	20	1,042,382	514,092	78,122	333,014	48,857	42,157	26,140
Columbia U. in the City of New York	21	1,032,909	762,289	7,250	78,278	77,105	105,442	2,545
Pennsylvania State U., University Park and Hershey Medical Center	22	991,923	638,930	47,196	211,889	29,131	63,664	1,113
Massachusetts Institute of Technology	23	987,968	488,741	2,104	119,003	200,722	99,438	77,960
Ohio State U.	24	968,260	539,359	50,614	151,106	150,235	48,000	28,946
New York U.	25	947,293	448,850	22,203	222,650	51,010	85,710	116,870
U. Florida	26	942,223	397,202	169,194	253,646	37,922	50,483	33,776
U. Southern California	27	941,198	562,120	13,691	197,247	43,425	50,026	74,689
Washington U., Saint Louis	28	920,215	559,882	890	172,213	93,981	91,685	1,564
Northwestern U.	29	874,671	531,654	12	233,695	52,440	48,087	8,783
U. California, Berkeley	30	840,000	349,989	32,598	181,355	81,265	135,100	59,693
Vanderbilt U. and Vanderbilt U. Medical Center	31	824,803	514,299	2,527	197,502	70,229	36,434	3,812
U. California, Davis	32	816,693	380,965	74,086	208,842	54,246	42,970	55,584
Emory U.	33	808,792	452,636	1,031	230,877	54,236	67,600	2,412
U. Texas, Austin	34	797,199	500,409	23,611	147,947	77,789	40,881	6,562
U. Arizona	35	760,975	328,807	33,210	231,170	23,040	34,707	110,041
Icahn School of Medicine at Mount Sinai	36	747,014	480,452	8,270	135,617	61,137	53,691	7,847
Indiana U., Bloomington	37	728,554	343,876	3,434	281,536	26,506	71,676	1,526
Michigan State U.	38	713,197	329,748	47,310	290,251	13,141	18,986	13,761
U. Illinois, Urbana-Champaign	39	689,176	387,853	25,302	186,309	36,178	34,212	19,322

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Rutgers, State U. New Jersey, New Brunswick	40	688,077	311,743	86,581	130,582	60,291	60,621	38,259
Purdue U., West Lafayette	41	687,144	270,605	39,251	228,677	75,499	30,205	42,907
Baylor C. of Medicine	42	685,641	315,101	30,591	222,123	24,991	92,835	0
Arizona State U.	43	673,357	278,150	40,835	248,659	18,148	62,702	24,863
U. Virginia, Charlottesville	44	652,002	300,348	8,780	212,843	29,798	37,430	62,803
U. Alabama, Birmingham	45	618,226	400,110	8,209	116,242	58,758	33,706	1,201
U. Utah	46	607,061	314,023	4,908	209,608	38,458	36,404	3,660
U. Texas Southwestern Medical Center	47	595,939	242,679	66,440	137,027	38,500	53,780	57,513
Boston U.	48	583,267	339,172	517	157,935	22,430	40,325	22,888
Virginia Polytechnic Institute and State U.	49	556,341	210,792	61,192	231,204	39,857	6,319	6,977
U. Colorado Denver and Anschutz Medical Campus	50	554,643	348,724	24,563	71,012	50,627	49,479	10,238
North Carolina State U.	51	546,290	232,110	123,750	131,677	53,302	4,750	701
U. Iowa	52	538,583	259,639	5,489	225,307	28,073	20,062	13
U. Cincinnati	53	530,138	285,899	5,867	144,949	38,587	42,326	12,510
U. Colorado Boulder	54	525,674	427,869	4,435	35,695	9,942	15,348	32,385
U. California, Irvine	55	490,597	241,734	15,947	123,966	33,033	28,381	47,536
U. Georgia	56	482,786	171,351	54,667	220,201	9,490	17,725	9,352
U. Chicago	57	458,891	352,447	224	32,978	36,343	34,865	2,034
California Institute of Technology	58	449,651	316,519	1,394	48,754	18,366	36,500	28,118
Oregon Health and Science U.	59	446,890	321,572	334	44,413	38,692	41,520	359
Scripps Research Institute	60	444,964	243,502	4,503	135,483	22,386	39,090	0
Case Western Reserve U.	61	439,778	357,589	805	48,786	5,185	23,274	4,139
SUNY, U. Buffalo	62	422,038	200,155	25,016	131,323	29,881	19,164	16,499
U. Kentucky	63	417,674	200,664	35,346	130,570	9,985	10,677	30,432
U. Illinois, Chicago	64	412,147	223,030	6,772	135,744	14,766	24,288	7,547
Colorado State U., Fort Collins	65	407,302	287,100	17,707	61,093	13,406	19,938	8,058
U. Rochester	66	397,211	296,241	2,110	46,412	30,271	16,366	5,811
Princeton U.	67	396,502	203,259	300	78,989	19,932	55,398	38,624
Carnegie Mellon U.	68	386,996	217,625	2,735	115,615	36,121	9,210	5,690
U. Miami	69	381,410	224,184	10,841	75,755	34,249	35,005	1,376
U. Kansas	70	368,811	185,007	22,364	116,482	22,089	22,243	626
Iowa State U.	71	363,107	165,912	36,709	125,420	18,149	11,626	5,291
U. Oklahoma, Norman and Health Science Center	72	362,209	183,728	35,983	111,660	17,698	9,232	3,908
Rockefeller U.	73	356,217	86,280	533	230,148	5,110	33,853	293
SUNY, Polytechnic Institute	74	355,651	27,998	169,352	14,251	139,125	588	4,337
Florida State U.	75	350,430	162,296	4,391	164,970	2,177	8,946	7,650
Washington State U.	76	335,201	154,623	51,641	104,722	13,458	7,101	3,656
U. South Florida, Tampa	77	333,344	158,958	14,824	126,104	15,525	14,530	3,403
U. Missouri, Columbia	78	332,180	156,190	25,000	123,624	13,749	8,132	5,485
Dartmouth C. and Dartmouth Hitchcock Medical Center	79	326,349	142,219	1,250	150,097	4,359	21,710	6,714

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Uniformed Services U. of the Health Sciences	80	324,510	235,202	0	82,613	0	6,695	0
U. Nebraska, Lincoln	81	320,463	107,299	54,240	125,648	19,215	5,451	8,610
U. Tennessee, Knoxville[c]	82	320,407	138,402	15,100	147,875	7,580	6,021	5,429
Utah State U.	83	304,256	242,156	22,820	24,719	7,961	784	5,816
Temple U.	84	299,707	154,600	8,556	93,385	17,721	18,264	7,181
Albert Einstein C. of Medicine	85	288,654	204,635	3,150	65,723	4,286	10,860	0
Louisiana State U., Baton Rouge	86	286,733	87,895	72,026	99,412	10,461	9,391	7,548
Virginia Commonwealth U.	87	283,874	152,751	28,217	75,230	12,699	14,977	0
Mississippi State U.	88	280,485	120,616	90,345	55,647	3,477	9,055	1,345
U. Connecticut	89	280,131	164,848	5,631	79,292	11,409	12,894	6,057
U. Massachusetts, Medical School	90	279,096	192,938	1,410	45,329	15,073	19,535	4,811
U. Hawaii, Manoa	91	275,929	163,694	19,229	76,169	2,623	12,809	1,405
U. Texas Health Science Center, Houston	92	273,862	133,624	42,174	44,129	16,479	24,958	12,498
Medical U. South Carolina	93	272,590	153,802	5,666	73,804	20,747	11,011	7,560
George Washington U.	94	270,369	157,533	1,740	66,453	4,596	28,958	11,089
Oregon State U.	95	268,385	167,494	49,880	25,759	7,387	2,499	15,366
Brown U.	96	266,127	185,676	31	56,188	3,634	14,737	5,861
Medical C. Wisconsin	97	264,325	128,783	440	81,608	24,973	22,878	5,643
SUNY, Stony Brook U.	98	263,470	146,478	13,795	87,367	5,307	8,287	2,236
Georgetown U.	99	258,659	98,682	1,613	66,181	18,307	48,919	24,957
Auburn U., Auburn	100	255,281	73,468	31,628	130,268	6,700	1,632	11,585
U. California, Santa Barbara	101	254,434	123,198	4,335	54,929	22,578	29,986	19,408
Wake Forest U.	102	244,643	166,596	17,361	24,365	13,228	15,449	7,644
U. New Mexico	103	243,375	161,627	6,046	61,092	3,733	9,064	1,813
Wayne State U.	104	243,259	113,137	11,699	81,190	5,703	26,350	5,180
U. Central Florida	105	239,343	114,575	14,653	86,095	12,418	6,049	5,553
Florida International U.	106	236,842	103,366	18,582	104,836	2,271	7,059	728
Clemson U.	107	228,597	82,203	26,544	94,600	18,120	6,894	236
Woods Hole Oceanographic Institution	108	227,573	191,186	1,653	16,741	2,223	6,872	8,898
U. Notre Dame	109	227,535	104,030	530	80,244	6,212	18,563	17,956
George Mason U.	110	221,006	104,070	3,750	58,447	7,972	38,691	8,076
U. Delaware	111	220,445	144,142	10,781	48,912	6,740	4,812	5,058
U. South Carolina, Columbia	112	219,464	97,143	6,028	100,802	4,050	7,250	4,191
U. Massachusetts, Amherst	113	219,389	116,170	7,779	75,307	7,702	8,880	3,551
Tufts U.	114	216,241	148,320	1,634	23,231	10,162	28,558	4,336
Kansas State U.	115	213,900	79,100	42,624	76,929	6,594	7,057	1,596
Tulane U.	116	204,430	107,290	5,103	51,577	5,589	20,228	14,643
U. Texas Health Science Center, San Antonio	117	202,572	102,959	21,895	45,061	8,048	24,287	322
Georgia State U.	118	202,451	78,199	6,910	101,059	575	15,022	686
U. Nebraska, Medical Center	119	202,406	105,158	11,932	43,265	10,072	16,011	15,968
U. Houston	120	200,428	71,779	33,898	74,188	8,034	9,803	2,726
Northeastern U.	121	200,068	136,273	3,767	41,810	9,060	8,568	590

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Texas Tech U.	122	199,643	31,475	29,341	114,278	11,588	12,653	308
U. Louisville	123	198,818	88,251	10,365	64,507	11,584	8,518	15,593
Rice U.	124	198,681	88,768	7,104	59,140	8,851	30,199	4,619
U. Vermont	125	191,147	97,981	1,115	73,959	3,617	8,565	5,910
West Virginia U.	126	188,452	79,657	8,958	70,620	6,077	5,948	17,192
Oklahoma State U., Stillwater	127	187,060	39,873	22,850	111,227	9,807	2,990	313
U. California, Riverside	128	184,894	92,503	10,827	51,440	6,288	7,826	16,010
U. Texas Medical Branch	129	180,595	114,103	7,302	44,544	5,832	8,814	0
U. Arkansas for Medical Sciences	130	174,549	70,508	11,085	69,885	12,826	5,537	4,708
Thomas Jefferson U.	131	171,377	74,676	3,330	53,798	20,915	9,537	9,121
Montana State U., Bozeman	132	166,285	93,759	18,088	45,253	2,392	4,918	1,875
U. Arkansas, Fayetteville	133	165,887	47,454	54,705	51,260	6,648	5,592	228
U. Louisiana, Lafayette	134	164,070	40,044	10,812	32,175	78,591	2,448	0
U. Dayton	135	163,718	154,101	1,358	2,195	5,439	555	70
U. Nevada, Reno	136	159,790	64,793	8,534	74,320	3,807	2,062	6,274
U. New Hampshire	137	156,901	100,373	4,695	38,439	8,430	3,933	1,031
New Jersey Institute of Technology	138	155,715	85,746	2,987	53,611	3,013	5,719	4,639
North Dakota State U.	139	155,645	31,614	50,334	64,673	1,865	1,074	6,085
Wichita State U.	140	153,816	53,540	6,645	10,004	81,356	110	2,161
U. Alaska, Fairbanks	141	152,299	101,414	2,342	41,423	2,774	1,779	2,567
U. California, Santa Cruz	142	150,400	76,468	5,870	31,824	8,701	15,685	11,852
Syracuse U.	143	149,652	31,861	4,812	97,654	4,516	10,673	136
Drexel U.	144	143,123	82,576	4,650	38,742	3,203	7,513	6,439
U. Texas, San Antonio	145	138,586	34,334	16,210	65,229	5,703	14,490	2,620
SUNY, U. Albany	146	138,088	67,039	5,201	61,302	705	1,744	2,097
U. Texas, Arlington	147	133,793	44,950	19,309	52,902	5,989	8,740	1,903
U. Texas, Dallas	148	132,192	55,983	11,080	36,906	6,496	21,727	0
U. Maine	149	132,184	54,376	18,487	50,890	3,005	3,685	1,741
U. Alabama, Huntsville	150	131,648	104,288	3,407	22,569	970	282	132
U. Mississippi	151	122,960	82,361	5,171	28,635	2,425	4,104	264
SUNY, Binghamton U.	152	117,870	24,564	4,957	82,764	3,588	1,258	739
Cold Spring Harbor Laboratory	153	115,198	62,215	32	32,295	1,222	19,434	0
U. Oregon	154	114,259	81,278	746	27,587	213	3,386	1,049
U. Idaho	155	112,810	51,450	35,509	19,536	2,581	971	2,763
U. North Dakota	156	111,663	44,153	14,272	40,488	11,419	1,039	292
U. Montana, Missoula	157	110,218	62,067	1,026	44,285	556	1,685	599
U. Rhode Island	158	109,967	67,242	9,302	26,749	2,892	2,960	822
U. Texas, El Paso	159	108,628	39,126	20,684	36,075	1,162	1,622	9,959
Rensselaer Polytechnic Institute	160	107,623	52,150	4,959	28,841	15,594	6,079	0
New Mexico State U.	161	107,275	60,971	21,097	13,809	1,644	3,827	5,927
U. Nevada, Las Vegas	162	105,872	29,252	2,493	69,282	1,149	655	3,041
Augusta U.	163	103,961	55,797	504	40,408	3,018	4,211	23
U. Tennessee, Health Science Center	164	99,716	48,264	4,503	26,628	3,353	8,902	8,066

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
San Diego State U.	165	97,710	41,117	3,073	48,934	836	2,043	1,707
U. Alabama, Tuscaloosa	166	95,200	43,017	16,018	32,141	2,525	1,071	428
Rush U.	167	94,438	65,343	1,886	8,712	12,732	5,765	0
U. Wyoming	168	93,061	57,353	5,164	24,503	4,519	1,394	128
U. Massachusetts, Lowell	169	92,216	41,304	8,471	35,980	3,263	1,300	1,898
U. North Texas, Denton	170	84,239	13,653	5,524	61,069	1,619	1,550	824
U. Maryland, Baltimore County	171	83,867	59,391	7,192	13,493	1,271	1,947	573
Colorado School of Mines	172	78,517	55,560	2,131	4,255	10,072	1,822	4,677
Cleveland State U.	173	78,189	53,756	956	16,601	2,166	4,515	195
Michigan Technological U.	174	77,927	36,172	456	31,849	6,661	220	2,569
U. Southern Mississippi	175	72,322	42,870	12,374	11,194	4,399	1,417	68
American U.	176	71,839	16,123	622	43,461	513	10,486	634
Indiana U.-Purdue U., Indianapolis	177	71,387	31,622	1,467	28,006	2,214	7,950	128
Texas State U.	178	70,714	26,950	3,850	33,796	792	5,326	0
Saint Louis U.	179	69,528	34,419	1,202	21,359	4,362	7,975	211
U. Memphis	180	69,463	18,063	7,776	39,192	998	2,914	520
William & Mary	181	66,763	30,436	3,760	25,542	795	4,561	1,669
Old Dominion U.	182	65,704	30,330	16,403	14,436	990	3,217	328
Northern Arizona U.	183	64,456	39,387	7,342	15,645	523	1,358	201
U. Massachusetts, Boston	184	64,219	27,575	3,325	25,435	2,075	5,618	191
Brandeis U.	185	63,201	41,440	1,028	10,612	294	8,699	1,128
Boston C.	186	63,063	31,038	1,801	13,420	872	15,173	759
Naval Postgraduate School	187	62,903	51,870	0	10,059	485	108	381
U. Wisconsin-Milwaukee	188	61,069	25,354	18,056	13,648	1,508	1,149	1,354
South Dakota State U.	189	60,939	22,531	16,477	3,143	1,879	3,800	13,109
U. California, Office of the President	190	60,686	217	31,777	28,666	0	20	6
Van Andel Research Institute	191	58,982	18,538	0	28,709	409	2,566	8,760
East Carolina U.	192	57,820	20,168	620	28,538	3,363	5,131	0
Rochester Institute of Technology	193	57,777	28,092	9,210	15,970	2,392	1,192	921
U. Texas Rio Grande Valley	194	56,702	13,093	7,566	27,680	455	7,653	255
U. Maryland Center for Environmental Science	195	54,560	15,498	27,148	9,503	589	1,563	259
U. Toledo	196	54,100	27,770	1,254	18,793	4,075	2,130	78
Florida Atlantic U.	197	53,845	23,695	4,581	14,711	2,729	5,863	2,266
Ohio U.	198	51,914	15,543	1,398	28,659	4,349	1,452	513
U. South Alabama	199	51,102	21,825	239	24,879	1,511	100	2,548
Kent State U.	200	50,307	15,004	521	32,258	576	1,752	196
U. North Carolina, Charlotte	201	50,050	27,618	1,176	18,128	2,133	908	87
Wright State U.	202	49,825	35,321	5,352	7,833	606	613	100
Mercer U.	203	49,116	31,572	62	9,247	5,452	191	2,592
U. North Texas, Health Science Center	204	47,392	25,917	10,787	7,265	1,463	1,800	160
San Jose State U.	205	47,301	34,102	6,297	4,100	914	1,345	543
Missouri U. of Science and Technology	206	47,001	22,860	230	16,536	4,604	575	2,196

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. California, Merced	207	45,966	20,000		5,108		16,274		558		1,870		2,156	
CUNY, City C.	208	45,632	30,106		4,193		8,968		1,068		1,011		286	
Howard U.	209	44,933	29,256		1,353		10,860		2,721		743		0	
Stevens Institute of Technology	210	44,747	33,461		1,499		7,443		1,356		909		79	
Texas Tech U., Health Sciences Center	211	44,135	13,043		18,200		8,839		357		1,350		2,346	
Portland State U.	212	43,667	31,315		4,178		4,680		1,321		1,637		536	
Louisiana State U., Health Sciences Center, New Orleans	213	43,419	31,381		196		5,881		2,109		3,290		562	
Boise State U.	214	43,307	26,914		2,265		12,867		378		617		266	
Worcester Polytechnic Institute	215	43,092	26,074		1,121		9,165		4,003		1,484		1,245	
Southern Methodist U.	216	43,081	17,752		877		20,640		2,250		1,562		0	
U.S. Air Force Academy	217	42,197	33,554		0		7,841		802		0		0	
Southern Illinois U., Carbondale	218	41,617	12,735		467		21,176		6,777		462		0	
SUNY, Upstate Medical U.	219	41,557	23,940		1,557		9,460		2,141		2,438		2,021	
U. Denver	220	41,349	24,753		964		7,145		1,521		6,270		696	
Florida A&M U.	221	41,319	33,136		2,561		4,997		550		75		0	
U. West Florida	222	40,051	12,369		681		25,667		741		593		0	
Baylor U.	223	39,765	8,851		1,153		21,821		1,395		4,866		1,679	
Loyola U., Chicago	224	39,365	24,018		164		7,961		3,384		2,860		978	
Brigham Young U., Provo	225	38,569	24,632		1,128		6,386		3,273		2,718		432	
CUNY, Hunter C.	226	38,345	26,025		2,622		8,847		229		331		291	
Lehigh U.	227	38,064	26,816		1,888		8,181		758		378		43	
U. Puerto Rico, Medical Sciences Campus	228	37,217	27,033		361		6,251		3,551		0		21	
Marquette U.	229	37,136	13,187		539		15,058		1,027		2,162		5,163	
U. Missouri, Kansas City	230	36,356	22,320		110		10,283		964		1,054		1,625	
North Carolina Agricultural and Technical State U.	231	36,151	22,338		369		12,766		73		311		294	
Air Force Institute of Technology	232	35,584	22,854		0		12,612		118		0		0	
SUNY, Downstate Medical Center	233	33,204	26,454		21		5,396		305		696		332	
San Francisco State U.	234	33,078	i	16,331	i	2,243	i	13,222	i	67	i	1,200	i	15	i
Texas A&M U.-Corpus Christi	235	32,284	13,349		8,436		4,691		716		2,079		3,013	
Illinois State U.	236	32,260	8,719		1,250		21,288		122		871		10	
Morehouse School of Medicine	237	29,813	22,500		273		5,504		0		1,536		0	
SUNY, C. of Environmental Science and Forestry	238	29,296	7,809		13,768		6,258		663		552		246	
U. South Dakota	239	29,279	13,034		1,683		13,893		0		669		0	
Illinois Institute of Technology	240	29,122	24,244		36		1,739		1,562		948		593	
U. North Carolina, Greensboro	241	28,966	20,447		452		6,039		344		593		1,091	
Rutgers, State U. New Jersey, Newark	242	28,006	16,196		1,460		5,902		778		2,050		1,620	
U. Massachusetts, Dartmouth	243	26,836	6,506		1,644		16,761		1,354		307		264	
Chapman U.	244	26,660	7,850		1,168		11,717		616		5,301		8	
California Polytechnic State U., San Luis Obispo	245	26,605	10,178		2,897		9,932		1,280		2,267		51	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Louisiana Tech U.	246	26,585		7,167		2,606		14,576		903		0		1,333	
U. Puerto Rico, Mayaguez	247	26,553		15,842		681		8,960		712		315		43	
Desert Research Institute	248	26,428		15,791		997		4,345		415		3,819		1,061	
U. Minnesota, Duluth	249	26,137		6,454		6,935		11,746		845		81		76	
Nova Southeastern U.	250	26,035		10,452		2,652		10,764		1,309		610		248	
Rowan U.	251	26,018		15,551		4,401		3,737		818		1,511		0	
Villanova U.	252	25,505		4,921		1,386		17,542		350		1,056		250	
Northern Illinois U.	253	25,420		8,030		1,032		15,823		221		254		60	
Louisiana State U., Health Sciences Center, Shreveport	254	25,321		11,452		58		9,902		340		3,569		0	
Catholic U. of America	255	25,221		22,503		118		1,429		411		760		0	
Loma Linda U.	256	25,077	i	17,457	i	754	i	3,382	i	1,857	i	1,526	i	101	i
California State U., Sacramento	257	24,939		5,693		13,108		5,520		143		433		42	
New Mexico Institute of Mining and Technology	258	24,591		22,922		179		345		881		220		44	
Western Michigan U. and Homer Stryker M.D. School of Medicine	259	24,541		13,187		704		7,351		1,778		307		1,214	
Miami U.	260	24,489		10,473		1,446		10,959		957		532		122	
Delaware State U.	261	23,876	i	12,689	i	514	i	10,647	i	26	i	0	i	0	i
U. Nebraska, central administration	262	23,672		23,104		0		568		0		0		0	
Albany Medical C.	263	23,510		12,940		0		4,069		3,954		1,003		1,544	
U. Akron	264	23,496		10,574		688		6,355		3,898		1,054		927	
U. Puerto Rico, Rio Piedras	265	22,895		14,071		30		8,387		136		202		69	
Texas A&M U.-Kingsville	266	22,745		9,610		3,576		3,711		692		5,110		46	
U. Alaska, Anchorage	267	22,713		15,290		2,385		4,030		446		368		194	
Teachers C., Columbia U.	268	22,630		7,614		265		NA		1,038		10,766		2,947	
Marshall U.	269	22,250		11,078		1,073		8,169		489		1,441		0	
U. Texas Health Science Center, Tyler	270	21,265		7,732		4,022		5,581		252		3,678		0	
California State U., Northridge	271	21,228		17,261		1,422		1,515		35		995		0	
Tuskegee U.	272	20,973		15,122		2,624		2,706		0		0		521	
Eastern Virginia Medical School	273	20,870		15,748		267		2,280		1,244		1,331		0	
Fordham U.	274	20,456		3,831		333		14,154		58		1,118		962	
Creighton U.	275	20,339		7,583		2,929		6,845		1,207		817		958	
New York Medical C.	276	20,137		12,106		1,319		243		4,039		1,812		618	
U. Tulsa	277	18,787		4,697		720		3,104		9,732		427		107	
Bowling Green State U.	278	18,729		6,397		1,114		10,378		8		767		65	
Prairie View A&M U.	279	18,723		9,249		4,754		4,309		212		199		0	
Southern Illinois U., Edwardsville	280	18,273		3,467		90		13,531		989		168		28	
Florida Institute of Technology	281	18,271		10,999		2,028		3,191		922		390		741	
U. South Florida, Saint Petersburg	282	18,243		5,344		4,603		8,119		2		160		15	
Kennesaw State U.	283	17,954		1,983		121		14,582		606		526		136	
Embry-Riddle Aeronautical U.	284	17,786		11,542		29		1,183		3,151		460		1,421	
Montclair State U.	285	17,636		3,782		724		10,659		86		2,363		22	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Duquesne U.	286	17,485	4,981	798	9,566	267	1,873	0
Central Michigan U.	287	17,448	7,450	70	8,581	57	962	328
Morgan State U.	288	17,193	14,101	2,263	336	226	267	0
California State U., Long Beach	289	16,684	12,014	1,908	1,235	617	698	212
U. New Orleans	290	16,594	3,868	686	9,355	549	1,141	995
U. North Carolina, Wilmington	291	16,544	6,783	6,013	2,433	569	671	75
CUNY, Queens C.	292	16,470	12,726	1,054	2,304	43	315	28
U. Nebraska, Omaha	293	16,134	9,996	1,845	3,116	74	941	162
North Carolina Central U.	294	15,833	12,787	116	NA	137	1,194	1,599
Northeast Ohio Medical U.	295	15,758	10,684	51	3,655	0	1,368	0
Tennessee State U.	296	15,377	8,707	467	6,141	44	18	0
U. Missouri, Saint Louis	297	15,352	6,146	40	5,875	91	2,526	674
Texas Christian U.	298	15,326	3,168	386	10,010	1,493	166	103
Clarkson U.	299	15,104	7,095	1,394	4,425	1,483	490	217
Jackson State U.	300	15,081	13,662	0	1,226	0	183	10
U. Baltimore	301	15,054	11,748	2,218	NA	6	864	218
Tarleton State U.	302	14,890	4,139	2,779	7,526	334	112	0
Rosalind Franklin U. of Medicine and Science	303	14,601	8,504	56	4,474	958	609	0
South Dakota School of Mines and Technology	304	14,490	10,659	1,173	1,574	699	90	295
Idaho State U.	305	14,478	7,849	2,365	3,535	247	410	72
Langston U.	306	14,409	9,004	4	5,374	27	0	0
Humboldt State U.	307	14,236	2,399	4,147	2,964	212	2,259	2,255
Tennessee Technological U.	308	14,085	6,471	4,174	2,858	299	77	206
Long Island U.	309	13,997	1,349	0	12,135	234	238	41
CUNY, John Jay C. of Criminal Justice	310	13,939	5,297	1,014	2,968	2,159	1,449	1,052
East Tennessee State U.	311	13,925	7,329	49	2,416	334	3,407	390
Meharry Medical C.	312	13,870	12,573	0	315	3	979	0
Alcorn State U.	313	13,710	7,023	4,519	2,110	56	2	0
Charles R. Drew U. of Medicine and Science	314	13,682	9,863	311	3,202	0	306	0
U. of the Virgin Islands	315	13,631	11,787	1,700	26	0	118	0
U. North Florida	316	13,573	4,568	1,531	7,209	153	112	0
U. Hawaii, system office	317	13,568	13,367	0	201	0	0	0
Ponce Health Sciences U.	318	13,566	11,228	220	NA	0	0	2,118
California State U., San Marcos	319	13,250	11,547	1,308	272	0	123	0
New School	320	13,186	1,050	142	3,503	144	7,022	1,325
Missouri State U.	321	13,131	12,310	37	665	115	4	0
U.S. Naval Academy	322	13,123	12,577	0	186	0	360	0
U. Guam	323	13,043	9,722	1,706	1,555	25	0	35
Montana Technological U.	324	12,987	4,322	6,090	1,757	810	0	8
Oakland U.	325	12,949	5,068	57	6,215	313	835	461
Western Washington U.	326	12,823	3,966	706	6,980	82	1,087	2
U.S. Military Academy	327	12,473	8,406	0	2,184	45	191	1,647
Sam Houston State U.	328	12,437	4,764	198	7,379	3	71	22

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Graduate School of Public Health and Health Policy	329	12,177	8,722	214	1,871	416	951	3
Georgia Southern U.	330	12,166	1,790	625	5,068	4,075	608	0
Bryn Mawr C.	331	11,575	1,531	0	9,742	27	275	0
Hampton U.	332	11,402	11,278	0	124	0	0	0
Xavier U. Louisiana	333	11,387	9,680	775	879	0	53	0
CUNY, Advanced Science Research Center	334	11,373	9,208	169	1,308	158	198	332
U. Tennessee, Chattanooga	335	10,834	3,915	889	5,073	151	331	475
California State U., San Bernardino	336	10,819	5,886	2,750	2,093	0	90	0
California State U., Los Angeles	337	10,590	8,380	72	1,817	0	321	0
Midwestern U.	338	10,479	936	50	8,776	481	236	0
Texas Tech U., Health Sciences Center, El Paso	339	10,421	1,703	2,932	5,211	257	318	0
Clark U.	340	10,277	3,350	93	5,338	12	1,456	28
James Madison U.	341	10,247	2,609	373	6,365	173	669	58
Rhode Island C.	342	10,094	4,128	5,448	93	0	425	0
Virginia State U.	343	10,014	5,642	1,431	2,061	0	879	1
U. Arkansas, Little Rock	344	9,711	7,289	259	1,812	31	320	0
St. Edward's U.	345	9,619	7,700	900	925	14	30	50
William Paterson U.	346	9,603	1,896	0	7,575	1	131	0
Salisbury U.	347	9,496	2,413	3,638	3,359	11	75	0
Ball State U.	348	9,429	2,397	453	5,703	605	271	0
Claremont Graduate U.	349	9,403	809	408	3,440	657	4,046	43
Eastern Michigan U.	350	9,088	2,598	63	5,950	61	350	66
California State U., East Bay	351	9,072	2,348	992	5,434	77	221	0
California State U., Fresno	352	8,856	3,117	2,431	1,949	455	904	0
U. Michigan, Dearborn	353	8,777	2,264	16	3,984	2,262	224	27
Alabama A&M U.	354	8,749	5,643	2,541	448	117	0	0
Middle Tennessee State U.	355	8,697	3,062	421	4,098	345	771	0
Arkansas State U., Jonesboro	356	8,640	4,712	2,987	746	187	1	7
U. San Diego	357	8,607	2,398	169	5,418	0	436	186
U. Arkansas, Pine Bluff	358	8,540	4,393	1,748	2,309	0	90	0
Clark Atlanta U.	359	8,452	5,324	0	3,016	47	65	0
Oklahoma State U., Center for Health Sciences	360	8,378	2,618	147	5,486	92	35	0
Wesleyan U.	361	8,300	4,305	31	3,137	97	651	79
Western Kentucky U.	362	8,241	3,265	478	4,250	153	83	12
U. Maryland, Eastern Shore	363	8,092	8,084	0	0	8	0	0
Wellesley C.	364	8,088	4,441	49	NA	158	2,497	943
Kentucky State U.	365	7,963	4,456	3,294	0	142	71	0
U. Oklahoma, Tulsa	366	7,483	1,953	1,060	2,936	115	891	528
Edward Via C. of Osteopathic Medicine	367	7,475	566	3	6,443	150	313	0
California State Polytechnic U., Pomona	368	7,396	5,514	821	509	344	208	0
Loyola Marymount U.	369	7,193	1,105	921	4,593	3	571	0

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Norfolk State U.	370	7,153		7,148		0		5		0		0		0	
U. Washington, Bothell	371	7,107		2,815		42		1,045		129		3,058		18	
CUNY, Brooklyn C.	372	7,074		4,651		198		1,489		72		645		19	
Azusa Pacific U.	373	7,068		128		95		6,704		2		139		0	
California State U., Bakersfield	374	7,053		4,486		150		2,306		38		22		51	
U. Hawaii, Hilo	375	6,992		5,274		102		1,160		179		209		68	
U. New England	376	6,886		5,064		1		1,698		26		92		5	
Grand Valley State U.	377	6,792		1,831		323		3,475		24		641		498	
Florida Gulf Coast U.	378	6,671		5,304		814		103		104		346		0	
DePaul U.	379	6,557		5,156		0		925		0		450		26	
Indiana U. Pennsylvania	380	6,531		1,309		147		4,647		62		339		27	
West Chester U. Pennsylvania	381	6,414		724		62		5,277		28		175		148	
West Texas A&M U.	382	6,220		1,542		2,440		1,327		805		67		39	
Central State U.	383	6,107		3,097		1,861		1,149		0		0		0	
Naval War C.	384	5,944		5,944		0		0		0		0		0	
California State U., Fullerton	385	5,929		4,121		262		1,163		49		334		0	
Western U. of Health Sciences	386	5,899		4,486		522		29		635		165		62	
Toyota Technological Institute, Chicago	387	5,887		3,038		0		1,513		1,230		106		0	
California State U., Monterey Bay	388	5,874		3,889		1,042		683		8		252		0	
Claremont McKenna C.	389	5,846		771		52		4,512		0		511		0	
Pacific U.	390	5,842		2,596		289		1,961		447		549		0	
Purdue U., Northwest	391	5,839		1,996		786		1,549		759		147		602	
Grinnell C.	392	5,826		644		0		4,328		0		309		545	
U. Central Oklahoma	393	5,788	i	1,444	i	624	i	3,646	i	71	i	3	i	0	i
Winston-Salem State U.	394	5,781		4,498		57		NA		0		818		408	
Lincoln U., Jefferson City	395	5,777		3,636		2,141		NA		0		0		0	
West Virginia State U.	396	5,775		3,993		1,592		159		31		0		0	
C. Charleston	397	5,728		3,087		275		1,727		7		574		58	
Seton Hall U.	398	5,718		2,725		1,993		88		210		702		0	
U. Southern Maine	399	5,635		2,231		3,013		245		0		130		16	
U. Colorado Colorado Springs	400	5,557		3,508		694		486		744		114		11	
Southern Connecticut State U.	401	5,413		1,026		305		3,649		53		188		192	
Bucknell U.	402	5,339	i	1,693	i	76	i	3,023	i	202	i	335	i	10	i
U. Massachusetts, central office	403	5,225		488		3,533		285		242		602		75	
Reed C.	404	5,155		1,806		33		2,897		0		303		116	
Des Moines U.	405	5,021		449		255		4,068		3		246		0	
Williams C.	406	4,924	i	1,086	i	0	i	1,663	i	0	i	137	i	2,038	i
Fort Valley State U.	407	4,921		4,806		0		115		0		0		0	
Amherst C.	408	4,906		1,775		0		2,230		0		10		891	
Appalachian State U.	409	4,894		1,469		199		2,568		112		485		61	
U. of Health Sciences and Pharmacy in St. Louis	410	4,835		3,767		0		547		431		90		0	
Morehouse C.	411	4,825		4,825		0		0		0		0		0	
U. North Carolina, Asheville	412	4,789		2,405		349		435		2		1,598		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Graduate Center	413	4,787	2,561	78	169	0	825	1,154
U. Detroit Mercy	414	4,786	4,226	0	524	13	23	0
Texas Southern U.	415	4,782	2,941	1,048	789	0	4	0
U. Wisconsin-Stevens Point	416	4,764	2,193	932	1,044	3	341	251
Smith C.	417	4,685	2,650	0	1,401	68	566	0
Gallaudet U.	418	4,599	1,841	0	2,414	0	326	18
U. of the District of Columbia	419	4,590	2,664	0	1,922	0	0	4
National Defense U.	420	4,583	4,583	0	0	0	0	0
U.S. Army War C.	421	4,500	4,500	0	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	422	4,475	2,085	2,338	52	0	0	0
Haverford C.	423	4,473	2,680	0	1,168	0	163	462
Dakota State U.	424	4,412	3,957	34	220	192	9	0
Roseman U. of Health Sciences	425	4,380	56	0	4,099	216	9	0
Lamar U.	426	4,327	2,146	1,309	136	281	455	0
California State U., Chico	427	4,305	2,520	747	491	16	148	383
Pace U.	428	4,272	2,997	0	1,103	7	147	18
Oregon Institute of Technology	429	4,267	326	2,119	561	976	285	0
Stockton U.	430	4,236	872	2,235	1,008	0	121	0
Texas A&M U.-Commerce	431	4,166	1,226	313	2,252	46	205	124
CUNY, Lehman C.	432	4,154	3,197	0	500	82	44	331
Texas Woman's U.	433	4,135	1,700	699	1,058	59	619	0
Youngstown State U.	434	4,120	3,308	128	560	107	17	0
Rutgers, State U. New Jersey, Camden	435	3,950	1,952	91	1,136	166	603	2
U. North Carolina, general administration	436	3,942	572	3,370	0	0	0	0
U. Central del Caribe	437	3,931	2,743	267	846	0	0	75
Fisk U.	438	3,904	3,811	15	0	16	62	0
Southern U. and A&M C., Baton Rouge	439	3,849	2,996	23	441	389	0	0
U. New Haven	440	3,843	1,440	473	363	390	1,170	7
Hope C.	441	3,822	1,155	0	1,492	0	1,119	56
South Carolina State U.	442	3,796 i	3,796 i	NA	NA	NA	NA	NA
Albany C. of Pharmacy and Health Sciences	443	3,765	1,938	0	822	841	137	27
U. of the Sciences Philadelphia	444	3,761	1,126	234	1,042	850	509	0
Barnard C.	445	3,748	2,800	0	467	60	421	0
U. Northern Colorado	446	3,738	1,853	262	1,267	8	348	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	447	3,737	342	0	3,362	0	33	0
Carleton C.	448	3,732	1,236	17	2,052	0	427	0
CUNY, C. Staten Island	449	3,682	2,295	603	483	2	84	215
Carlos Albizu U.	450	3,679	3,435	62	23	0	159	0
Stephen F. Austin State U.	451	3,672	1,257	1,316	703	32	206	158

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Franklin and Marshall C.	452	3,623	1,202	204	1,747	231	73	166
Towson U.	453	3,612	2,010	126	1,185	15	156	120
New York Institute of Technology	454	3,580	1,542	153	1,592	0	293	0
Touro U.	455	3,551	1,558	63	1,876	53	1	0
MGH Institute of Health Professions	456	3,549	3,014	0	20	0	515	0
Swarthmore C.	457	3,544	1,041	0	2,278	0	225	0
U. Washington, Tacoma	458	3,504	3,075	120	207	0	102	0
SUNY, C. of Optometry	459	3,477	1,688	0	524	1,233	10	22
Trinity U.	460	3,472	1,207	17	1,280	0	886	82
U. Central Arkansas	461	3,455	1,421	865	1,054	50	65	0
U. Illinois, Springfield	462	3,406	976	1,352	996	26	56	0
Philadelphia C. of Osteopathic Medicine	463	3,360	422	0	2,415	0	523	0
Lewis and Clark C.	464	3,350	1,268	0	1,527	0	555	0
High Tech High Graduate School of Ed.	465	3,304	0	0	0	0	3,304	0
St. John's U., New York	466	3,282	1,805	0	789	147	374	167
California State U., Maritime Academy	467	3,202	621	151	85	2,345	0	0
Milwaukee School of Engineering	468	3,190	613	0	0	2,575	2	0
Saint Joseph's U.	469	3,150	1,047	812	1,084	123	84	0
Colorado State U., Pueblo	470	3,104	1,161	1,791	152	0	0	0
Texas A&M International U.	471	3,067	986	707	647	63	637	27
St. Cloud State U.	472	3,056	459	366	1,358	536	337	0
Murray State U.	473	3,019	1,929	37	1,007	46	0	0
U. Northern Iowa	474	2,970	1,881	343	702	4	40	0
Harvey Mudd C.	475	2,916	1,748	0	926	26	93	123
Colgate U.	476	2,913	918	0	1,768	12	215	0
Pomona C.	477	2,855	1,123	12	1,564	0	156	0
Austin Peay State U.	478	2,833	475	1,329	908	1	106	14
Fayetteville State U.	479	2,797	1,008	421	1,185	123	60	0
U. Wisconsin-La Crosse	480	2,795	817	848	434	455	234	7
Alfred U.	481	2,780	947	857	662	314	0	0
Yeshiva U.	482	2,763	772	0	1,407	0	239	345
Minnesota State U., Mankato	483	2,754	525	121	1,071	0	885	152
Spelman C.	484	2,750	2,136	0	477	137	0	0
Bowdoin C.	485	2,719	1,862	33	707	1	116	0
Northwest Indian C.	486	2,708 i	2,497 i	0 i	36 i	0 i	175 i	0 i
Western Carolina U.	487	2,696	1,707	228	479	121	161	0
Northern Kentucky U.	488	2,693	1,462	86	854	5	286	0
Santa Clara U.	489	2,682	1,522	311	NA	283	566	0
U. of St. Thomas (MN)	490	2,679	450	212	801	550	555	111
Central Washington U.	491	2,674	1,701	242	336	102	211	82
Occidental C.	492	2,657	1,567	279	NA	303	508	0
U. Nebraska, Kearney	493	2,640	1,259	330	961	39	17	34

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Abilene Christian U.	494	2,631	999	0	245	0	1,387	0
Christopher Newport U.	495	2,608	1,365	17	903	108	98	117
U. South Carolina, Aiken	496	2,590	2,328	0	255	0	7	0
Alabama State U.	497	2,582	2,582	0	0	0	0	0
Dillard U.	498	2,523	1,200	87	771	0	98	367
Johnson C. Smith U.	499	2,472	2,230	132	0	10	100	0
U. Richmond	500	2,469	1,628	0	613	0	228	0
Western Illinois U.	501	2,461	1,801	168	254	217	0	21
U. Virginia's C. Wise	502	2,434	952	854	621	0	7	0
Grambling State U.	503	2,427	787	560	1,080	0	0	0
Skidmore C.	504	2,412	1,827	0	441	0	144	0
CUNY, Baruch C.	505	2,396	1,470	14	434	0	367	111
U. Louisiana, Monroe	506	2,362	2,025	210	69	22	36	0
Babson C.	507	2,352	14	0	1,007	358	683	290
Saginaw Valley State U.	508	2,343	1,809	0	398	5	115	16
Framingham State U.	509	2,317	179	0	0	78	2,060	0
Bates C.	510	2,303	1,885	0	212	0	104	102
U. Wisconsin-Superior	511	2,301	1,382	174	563	66	10	106
U. Houston-Downtown	512	2,299	1,392	120	280	0	507	0
Colorado C.	513	2,291	196	290	917	0	888	0
Eastern Washington U.	514	2,282	1,153	931	NA	14	134	50
Purdue U., Fort Wayne	515	2,264	589	408	713	70	54	430
Davidson C.	516	2,263	1,411	0	413	10	408	21
Southeastern Louisiana U.	517	2,258	884	213	913	61	187	0
SUNY, Buffalo State	518	2,253	1,241	619	293	35	49	16
Winthrop U.	519	2,217	1,563	293	220	34	107	0
Kean U.	520	2,201	775	447	885	29	26	39
Pittsburg State U.	521	2,173	477	570	NA	1,085	41	0
U. San Francisco	522	2,161	148	118	1,372	0	523	0
Keck Graduate Institute	523	2,152 i	1,113 i	0 i	687 i	142 i	35 i	175 i
U. South Florida, Sarasota-Manatee	524	2,150	10	0	2,096	0	44	0
CUNY, New York City C. of Technology	525	2,130	1,585	0	136	404	5	0
Hobart and William Smith Colleges	526	2,114	1,072	436	384	0	85	137
Suffolk U.	527	2,106	844	0	1,010	0	252	0
U. Texas of the Permian Basin	528	2,105	757	32	562	0	754	0
Tougaloo C.	529	2,102	2,102	0	0	0	0	0
Furman U.	530	2,101	847	10	1,099	0	38	107
Kettering U.	531	2,081	568	8	832	591	63	19
Sul Ross State U.	532	2,068	481	126	119	25	785	532
California State U., Dominguez Hills	533	2,065	1,433	32	600	0	0	0
Seattle U.	534	2,060	1,303	62	160	1	334	200
U. Ana G. Mendez, Gurabo	535	2,049	946	0	1,103	0	0	0
Northeastern Illinois U.	536	2,018	2,018	0	0	0	0	0

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Mount Holyoke C.	537	2,016		1,442		0		227		0		347		0	
U. Texas, Tyler	538	2,007		774		225		631		207		96		74	
Pepperdine U.	539	2,006		693		31		623		0		634		25	
Erikson Institute	540	1,992		1,006		0		96		0		890		0	
U. Wisconsin-Green Bay	541	1,982		890		500		207		41		172		172	
U. Puerto Rico, Cayey	542	1,974		1,210		0		639		13		112		0	
Elon U.	543	1,968		106		0		1,828		0		34		0	
Bowie State U.	544	1,967		1,967		0		0		0		0		0	
Northwestern State U. Louisiana	545	1,940		598		1,105		237		0		0		0	
Claflin U.	546	1,910		1,907		0		0		0		3		0	
U. North Georgia	547	1,905		542		40		858		7		458		0	
Coastal Carolina U.	548	1,903		1,211		119		61		0		512		0	
Palmer C. of Chiropractic, Davenport	549	1,900		1,400		0		500		0		0		0	
Liberty U.	550	1,894		886		0		513		316		146		33	
Morehead State U.	551	1,883		1,674		50		133		0		26		0	
Hamilton C.	552	1,869		144		0		1,270		0		397		58	
Pennsylvania State U., Harrisburg	553	1,866		451		67		1,277		25		46		0	
John Carroll U.	554	1,865		1,780		0		65		0		0		20	
Mercyhurst U.	555	1,850	i	690	i	568	i	592	i	0	i	0	i	0	i
California State U., Stanislaus	556	1,843		1,284		73		79		399		8		0	
Savannah State U.	557	1,804		1,804		0		0		0		0		0	
Eastern Connecticut State U.	558	1,799		177		1		1,621		0		0		0	
Hawaii Pacific U.	559	1,796		1,699		52		27		0		4		14	
U. Wisconsin-Oshkosh	560	1,777	i	1,336	i	0	i	0	i	0	i	0	i	441	i
Macalester C.	561	1,755		647		84		794		0		230		0	
Pennsylvania State U., Behrend	562	1,743		543		7		0		718		475		0	
Monmouth U.	563	1,729		110		1,149		70		20		309		71	
Middlebury C.	564	1,720		1,546		0		132		1		41		0	
SUNY, C. Brockport	565	1,719		781		343		574		20		1		0	
U. of the Pacific	566	1,713		1,375		96		NA		13		229		0	
CUNY, system office	567	1,704		884		164		163		26		105		362	
Troy U.	568	1,692		1,591		0		66		16		19		0	
CUNY, York C.	569	1,691		1,513		0		156		0		22		0	
La Sierra U.	570	1,647		618		0		531		0		498		0	
SUNY, Geneseo	571	1,642		950		12		675		0		5		0	
Connecticut C.	572	1,598		483		0		1,071		0		44		0	
Central Connecticut State U.	573	1,572		901		264		407		0		0		0	
Vassar C.	574	1,568		1,055		0		306		0		182		25	
Willamette U.	575	1,546		401		1		768		0		376		0	
Sonoma State U.	576	1,545		936		310		247		16		36		0	
Mills C.	577	1,541		1,341		24		70		0		90		16	
American Samoa Community C.	578	1,536		1,536		0		0		0		0		0	
Colby C.	578	1,536		809		0		388		0		0		339	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
SUNY, Oswego	580	1,534		492		61		945		8		15		13	
Roger Williams U.	581	1,531		1,045		80		301		17		88		0	
Northern Michigan U.	582	1,523		446		0		876		15		10		176	
Lawrence Technological U.	583	1,521		405		174		64		212		666		0	
Black Hills State U.	584	1,499		1,287		98		114		0		0		0	
California State U., Channel Islands	585	1,497		553		574		339		31		0		0	
Calvin U.	585	1,497	i	888	i	30	i	5	i	92	i	176	i	306	i
Elizabeth City State U.	587	1,473		1,455		11		NA		0		0		7	
Indiana State U.	588	1,471		949		241		204		31		46		0	
U. of the Incarnate Word	589	1,469		869		130		155		42		268		5	
C. New Jersey	590	1,464		951		32		153		49		279		0	
U. Puerto Rico, Humacao	591	1,456		1,279		0		177		0		0		0	
SUNY, C. Plattsburgh	592	1,452		950		37		353		0		9		103	
Hofstra U.	593	1,445		997		231		96		3		64		54	
U. Hartford	594	1,436		854		0		568		14		0		0	
National U. of Natural Medicine	595	1,428		912		0		333		160		0		23	
Trinity C., Hartford	595	1,428		1,019		0		353		2		54		0	
Franklin W. Olin C. of Engineering	597	1,404		293		0		530		27		499		55	
U. of Mary Washington	598	1,393		660		20		594		0		90		29	
Lafayette C.	599	1,390		755		14		522		1		53		45	
Fort Lewis C.	600	1,370		1,228		51		79		12		0		0	
U. Houston-Clear Lake	601	1,363		632		513		33		102		83		0	
Marshall B. Ketchum U.	602	1,357	i	323	i	0	i	685	i	349	i	0	i	0	i
Wheaton C., Wheaton	603	1,322		324		0		309		1		688		0	
U. Wisconsin-Eau Claire	604	1,318		647		292		219		59		99		2	
West Virginia School of Osteopathic Medicine	605	1,311		419		8		884		0		0		0	
Manhattan C.	606	1,307		398		174		503		232		0		0	
Sacred Heart U.	607	1,298		691		0		441		0		166		0	
U. Alaska, Southeast	608	1,264		1,098		65		76		0		25		0	
Alaska Pacific U.	609	1,261		148		0		0		1,100		10		3	
Indiana U., South Bend	610	1,249		400		0		643		0		206		0	
U. Michigan, Flint	611	1,247		276		3		588		366		8		6	
Jacksonville State U.	612	1,244		1,216		0		28		0		0		0	
Fairfield U.	613	1,210		365		0		255		0		590		0	
Drake U.	614	1,201		730		94		217		102		57		1	
Ithaca C.	615	1,199		981		0		170		0		13		35	
Biola U.	616	1,187	i	662	i	18	i	300	i	79	i	97	i	31	i
Oberlin C.	617	1,182		743		0		360		73		6		0	
Fort Hays State U.	618	1,172		764		24		168		209		7		0	
New England C. of Optometry	619	1,150		785		0		166		193		6		0	
Albion C.	620	1,132		272		0		860		0		0		0	
Saint John's U., Collegeville	621	1,130	i	0	i	0	i	1,130	i	0	i	0	i	0	i
Heidelberg U.	622	1,125		188		824		48		53		12		0	
Niagara U.	623	1,124		24		258		352		0		490		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Doane U.	624	1,123	i	958	i	0	i	148	i	0	i	17	i	0	i
U. Wisconsin-River Falls	625	1,107		488		408		7		152		0		52	
Dordt U.	626	1,106		1,049		2		40		0		15		0	
U. Wisconsin-Platteville	627	1,104	i	336	i	285	i	189	i	256	i	29	i	9	i
Northland C.	628	1,101		657		32		175		0		237		0	
Canisius C.	629	1,094		869		0		0		0		225		0	
Providence C.	630	1,092		913		0		127		0		52		0	
Florida Polytechnic U.	631	1,091		252		289		479		46		5		20	
New Mexico Highlands U.	632	1,090		1,034		0		0		0		56		0	
C. Wooster	633	1,076		283		0		703		0		90		0	
Fielding Graduate U.	634	1,073		906		0		167		0		0		0	
Arcadia U.	635	1,072		750		123		0		0		199		0	
C. of Saint Benedict	636	1,069	i	43	i	0	i	1,026	i	0	i	0	i	0	i
Keene State C.	637	1,063		1,043		0		19		0		1		0	
Union C., Schenectady	638	1,062		462		4		483		24		58		31	
Albany State U.	639	1,060		836		116		0		108		0		0	
Augustana U.	640	1,038		976		0		62		0		0		0	
Andrews U.	641	1,033		263		2		565		0		203		0	
U. Hawaii, Maui C.	641	1,033		995		0		38		0		0		0	
St. Olaf C.	643	1,032		230		0		652		0		150		0	
Citadel Military C. South Carolina	644	1,012		736		0		135		0		11		130	
Eastern Kentucky U.	645	1,010		554		66		309		4		77		0	
U. Minnesota, Morris	646	1,004		213		138		647		0		6		0	
Lipscomb U.	647	1,000	i	557	i	15	i	247	i	66	i	86	i	29	i
New C. Florida	648	999		114		0		544		303		19		19	
Chicago State U.	649	980		978		0		0		0		2		0	
United Tribes Technical C.	650	976		929		0		0		0		47		0	
Rhode Island School of Design	651	975	i	236	i	42	i	426	i	221	i	50	i	0	i
Wilkes U.	652	968		518		78		279		6		6		81	
St. Catherine U.	653	963		204		0		111		73		525		50	
U. Maine Farmington	654	961		666		72	i	158	i	21	i	31	i	13	i
Saint Michael's C.	655	957		775		0		182		0		0		0	
Southern Utah U.	656	955		741		0		212		0		2		0	
Juniata C.	657	937		323		0		271		0		285		58	
Lake Superior State U.	658	935		263		125		391		54		0		102	
Quinnipiac U.	659	930	i	448	i	50	i	252	i	40	i	123	i	17	i
Dickinson C.	660	929		222		87		325		49		29		217	
Emerson C.	661	919		84		171		279		27		202		156	
Gettysburg C.	662	913		320		0		144		46		227		176	
Hult International Business School	663	910	i	432	i	21	i	294	i	32	i	93	i	38	i
Kenyon C.	664	908		714		0		146		0		48		0	
Arkansas C. of Health Education	665	900		350		0		550		0		0		0	
U. Puget Sound	666	895		401		0		238		0		206		50	
Midwestern State U.	667	891		599		36		201		0		55		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Siena C.	668	884		382		14		351		130		7		0	
Augsburg U.	669	883		377		0		385		0		0		121	
CUNY, Medgar Evers C.	670	882		588		0		245		0		48		1	
Saint Francis U.	671	878		173		45		21		0		0		639	
Whitman C.	672	865		558		0		246		0		61		0	
Sewanee: U. of the South	673	864		35		0		378		0		325		126	
Arkansas Tech U.	674	856		382		17		389		68		0		0	
Bradley U.	675	851		235		86		207		301		0		22	
Gustavus Adolphus C.	676	843		365		9		87		33		207		142	
Stonehill C.	677	833		674		0		159		0		0		0	
La Salle U.	678	818		14		0		804		0		0		0	
U. Ana G. Mendez, Cupey	678	818		662		0		156		0		0		0	
Polytechnic U. Puerto Rico	680	813		813		0		NA		0		0		0	
Pacific Northwest U. of Health Sciences	681	808		738		0		50		0		20		0	
Salish Kootenai C.	682	807		802		0		0		0		5		0	
Angelo State U.	683	798		0		563		69		73		93		0	
East Stroudsburg U. Pennsylvania	684	797		534		0		176		0		87		0	
Dominican U. California	685	786	i	677	i	0	i	0	i	0	i	109	i	0	i
Bentley U.	686	777		246		0		0		65		466		0	
Radford U.	687	774		161		70		233		0		310		0	
Norwich U.	688	749		531		70		148		0		0		0	
West Liberty U.	689	738		365		89		235		0		49		0	
U. Portland	690	737		94		147		289		0		207		0	
U. Wisconsin-Whitewater	691	736		525		12		0		144		55		0	
Bloomsburg U. Pennsylvania	692	735		389		62		257		0		27		0	
U. Minnesota, Rochester	693	733		122		0		611		0		0		0	
Denison U.	694	727		573		0		56		0		98		0	
SUNY, Delhi	695	726		146		542		0		0		38		0	
Valparaiso U.	696	718		672		11		0		0		35		0	
Pennsylvania State U., Altoona	697	714		9		49		506		0		150		0	
Virginia Military Institute	698	712		347		3		342		0		20		0	
Butler U.	699	679		362		1		231		14		71		0	
Weber State U.	700	676		424		159		33		30		30		0	
Loyola U., Maryland	701	672		326		51		223		0		72		0	
Stetson U.	702	670		479		20		149		0		0		22	
Plymouth State U.	703	664		558		0		52		2		39		13	
U. Puerto Rico, Ponce	704	663	i	546	i	0	i	117	i	0	i	0	i	0	i
Lewis-Clark State C.	705	660		660		0		0		0		0		0	
Whitworth U.	705	660		140		63		210		0		247		0	
A. T. Still U.	707	656		462		0		135		10		49		0	
Fairleigh Dickinson U.	707	656		560		0		0		0		96		0	
Mississippi Valley State U.	709	653		646		0		7		0		0		0	
Nicholls State U.	710	650		86		113		25		49		377		0	
Salus U.	710	650		450		32		69		96		3		0	
Benedict C.	712	649		635		3		0		0		11		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Hendrix C.	712	649	563		9		77		0		0		0	
U. Ana G. Mendez, Carolina	714	647	520		0		127		0		0		0	
Berry C.	715	646	207		0		367		0		72		0	
Seattle Pacific U.	716	643	569		0		34		9		18		13	
Bethune-Cookman U.	717	636	529		0		107		0		0		0	
California Lutheran U.	718	630	271		0		359		0		0		0	
SUNY, Cobleskill	719	625	559		11		0		24		17		14	
Texas A&M U.-Central Texas	720	623	398		146		30		41		8		0	
Maryland Institute C. of Art	721	618	215		124		75		12		69		123	
San Juan Bautista School of Medicine	722	612	202		0		395		0		15		0	
Saint Mary's U. Minnesota	723	610	554		27		3		0		26		0	
Roanoke C.	724	606	18		0		567		0		21		0	
Simmons U.	725	604	566		0		11		0		0		27	
Kalamazoo C.	726	603	i	212	i	4	i	282	i	0	i	105	i	0	i
U. South Carolina, Beaufort	727	599	156		39		307		0		97		0	
U. Scranton	728	595	312		11		236		0		36		0	
Emporia State U.	729	594	517		0		77		0		0		0	
Delta State U.	730	592	592		0		0		0		0		0	
Salve Regina U.	731	591	578		13		0		0		0		0	
SUNY, Farmingdale State C.	732	589	166		0		420		0		3		0	
Widener U., Chester	733	586	277		3		0		290		1		15	
McNeese State U.	734	585	54		32		384		0		115		0	
St. Bonaventure U.	734	585	265		0		136		8		12		164	
Indiana U., Southeast	736	582	15		151		360		0		56		0	
Western Colorado U.	737	571	403		9		0		144		15		0	
Texas A&M U.-San Antonio	738	567	89		49		398		0		11		20	
U. Puerto Rico, Aguadilla	739	562	283		183		96		0		0		0	
Coe C.	740	561	368		29		2		21		5		136	
Nevada State C.	740	561	532		0		0		0		29		0	
U. Tampa	742	559	197		0		317		0		41		4	
St. Mary's C. Maryland	743	556	303		150		0		0		103		0	
U. Wisconsin-Stout	744	555	175		208		131		0		38		3	
Utica C.	745	549	0		0		549		0		0		0	
Eastern Illinois U.	746	540	256		82		164		12		26		0	
Western Connecticut State U.	747	539	347		55		137		0		0		0	
Oakwood U.	748	538	375		0		149		0		14		0	
Oglala Lakota C.	749	516	506		0		10		0		0		0	
Winona State U.	749	516	267		169		71		0		9		0	
U. Houston system administration	751	514	0		514		0		0		0		0	
Mayville State U.	752	509	384		125		0		0		0		0	
Governors State U.	753	508	508		0		0		0		0		0	
Gonzaga U.	754	506	305		0		46		0		155		0	
Western New England U.	755	505	201		15		150		129		10		0	
Merrimack C.	756	503	306		0		72		0		125		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Cooper Union for the Advancement of Science and Art	757	501		233		0		167		36		0		65	
Ursinus C.	758	497		430		65		0		0		2		0	
Metropolitan State U. of Denver	759	496		304		0		191		0		1		0	
Susquehanna U.	759	496		61		0		88		0		347		0	
Valdosta State U.	759	496		60		105		188		131		12		0	
Louisiana State U., Shreveport	762	494		321		39		112		11		2		9	
Southern Oregon U.	763	493		237		105		40		111		0		0	
Indiana U., Northwest	764	488		176		0		312		0		0		0	
Bluefield State C.	765	485		483		2		0		0		0		0	
Coker U.	765	485		460		0		0		0		25		0	
Southwestern Oklahoma State U.	767	484		276		47		138		0		23		0	
Indiana U., Kokomo	768	483		20		44		407		0		12		0	
U. West Georgia	768	483		220		65		21		67		110		0	
Georgia Gwinnett C.	770	478		338		105		35		0		0		0	
Illinois C. of Optometry	770	478		97		0		114		252		15		0	
MCPHS U.	772	473		192		0		227		25		5		24	
Kutztown U. Pennsylvania	773	472		276		86		110		0		0		0	
Lake Erie C. of Osteopathic Medicine	773	472		0		0		294		0		178		0	
U. West Alabama	775	465		401		46		0		0		18		0	
Jacksonville U.	776	459		0		257		0		202		0		0	
Colorado Mesa U.	777	452		228		7		48		3		166		0	
Allegheny C.	778	449		64		0		197		0		188		0	
Pacific Lutheran U.	778	449		100		8		49		0		282		10	
Southern C. of Optometry	780	446		11		0		145		286		0		4	
Claremont School of Theology	781	443	i	0	i	0	i	299	i	0	i	144	i	0	i
Ramapo C. New Jersey	782	441		379		0		62		0		0		0	
St. Lawrence U.	782	441		262		0		128		0		51		0	
Touro C.	784	439		73		0		346		20		0		0	
U. South Carolina Upstate	785	437		133		31		213		0		60		0	
Bryn Athyn C.	786	432		0		0		345		0		87		0	
Life U.	787	429		0		0		186		0		216		27	
Keiser U.	788	423		0		423		0		0		0		0	
Lawrence U.	788	423		165		0		59		0		156		43	
Palo Alto U.	790	417		179		6		107		0		43		82	
Graduate School of the Stowers Institute for Medical Research	791	416		0		0		0		0		416		0	
Rollins C.	792	414		165		0		126		0		122		1	
International Technological U.	793	410		10		0		400		0		0		0	
Northwest Nazarene U.	794	408		178		98		124		0		8		0	
Eckerd C.	795	406		139		15		31		112		109		0	
Northeastern State U.	795	406		330		14		42		2		18		0	
Northern New Mexico C.	797	404		404		0		0		0		0		0	
Millersville U. Pennsylvania	798	402		246		17		108		0		5		26	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. Central Missouri	799	401		250		71		30		0		50		0	
Montana State U., Billings	800	399		312		0		76		11		0		0	
Muhlenberg C.	801	398		115		0		236		0		47		0	
U.S. Coast Guard Academy	801	398		302		0		0		0		96		0	
Ferris State U.	803	394		87		5		177		50		75		0	
Evergreen State C.	804	390		279		2		0		109		0		0	
Slippery Rock U. Pennsylvania	804	390		79		1		195		82		33		0	
D'Youville C.	806	382		174		0		133		0		75		0	
Centre C.	807	376		58		0		283		0		20		15	
St. Mary's U., San Antonio	808	374		301		0		60		0		13		0	
Lake Forest C.	809	372		0		0		224		0		26		122	
Pennsylvania State U., Berks	809	372		273		34		0		44		21		0	
Cornell C.	811	370		228		0		83		0		5		54	
Adelphi U.	812	369	i	301	i	0	i	68	i	0	i	0	i	0	i
Longwood U.	813	368		312		15		37		0		4		0	
Luther C.	814	365		145		5		194		0		17		4	
Eastern New Mexico U., Portales	815	358		298		23		37		0		0		0	
Sarah Lawrence C.	816	355		60		27		235		20		12		1	
Gannon U.	817	351		32		4		158		129		28		0	
Ohio Northern U.	818	348		242		2		84		20		0		0	
Dine C.	819	347		347		0		0		0		0		0	
Clayton State U.	820	346		302		13		31		0		0		0	
Bridgewater State U.	821	345		198		15		128		0		4		0	
Hartford Seminary	821	345		0		0		0		0		345		0	
Ouachita Baptist U.	821	345	i	242	i	0	i	32	i	0	i	0	i	71	i
U. North Carolina, Pembroke	824	344		344		0		0		0		0		0	
Austin C.	825	342		116		0		123		0		103		0	
Loyola U., New Orleans	826	338		4		27		10		4		293		NA	
Utah Valley U.	827	336		289		0		0		0		47		0	
Middle Georgia State U.	828	335		209		71		49		0		6		0	
SUNY, New Paltz	829	330		149		0		157		11		13		0	
Ohio Wesleyan U.	830	323		120		0		167		36		0		0	
Montana State U., Northern	831	322		125		188		2		7		0		0	
C. of the Holy Cross	832	321		308		0		0		0		13		0	
Linfield C.	833	319		149		0		121		0		49		0	
Indiana Wesleyan U.	834	316		54		0		259		0		3		0	
Pitzer C.	835	313		0		0		313		0		0		0	
Auburn U., Montgomery	836	312		192		0		120		0		0		0	
Regis U.	837	311		156		0		106		3		46		0	
Southern U., New Orleans	838	310		256		54		0		0		0		0	
Moravian C.	839	309		91		0		218		0		0		0	
Missouri Western State U.	840	306		276		0		30		0		0		0	
U. Tennessee, Martin	841	305		74		2		157		0		0		72	
St. Norbert C.	842	304		7		0		297		0		0		0	
Alabama C., Osteopathic Medicine	843	303		41		0		262		0		0		0	

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Bryant U.	844	302	227	0	75	0	0	0
U. Southern Indiana	845	300	55	110	126	4	5	0
Wittenberg U.	846	297	165	23	109	0	0	0
Truman State U.	847	296	60	28	192	0	5	11
Concordia U., Wisconsin	848	293	235	0	0	0	58	0
Manchester U.	849	286	117	0	57	0	9	103
Wheaton C., Norton	850	281	281	0	0	0	0	0
Concordia C., Moorhead	851	275	94	0	178	3	0	0
Southern Arkansas U.	851	275	44	0	231	0	0	0
Future Generations U.	853	271 i	0 i	15 i	219 i	34 i	0 i	3 i
LeTourneau U.	853	271	125	0	77	59	10	0
Georgia C. and State U.	855	270	160	27	66	0	10	7
New Jersey City U.	856	262	223	0	39	0	0	0
Columbus State U.	857	261	93	0	105	58	5	0
Southwestern U.	857	261	3	0	208	0	50	0
SUNY, C. Cortland	859	255	215	21	0	0	0	19
DePauw U.	860	253	39	0	111	0	0	103
Minot State U.	860	253	125	75	53	0	0	0
East Central U.	862	251	169	60	20	1	0	1
Bastyr U.	863	250	0	0	80	10	100	60
Wheeling U.	864	248	248	0	0	0	0	0
Whittier C.	864	248	13	0	171	0	64	0
Goucher C.	866	245	207	0	38	0	0	0
U. Evansville	866	245	65	0	148	0	0	32
Bard C.	868	242	65	0	177	0	0	0
Northern State U.	869	240	100	73	67	0	0	0
Iona C.	870	239	239	0	0	0	0	0
Northwest Missouri State U.	870	239	107	0	132	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	870	239	125	0	114	0	0	0
Alverno C.	873	237	0	0	237	0	0	0
Barry U.	873	237	9	0	37	168	23	0
Point Loma Nazarene U.	873	237	162	1	15	4	0	55
Eastern Mennonite U.	876	236	236	0	0	0	0	0
Kansas City U. of Medicine and Biosciences	877	235	142	0	93	0	0	0
Northeast C. of Health Sciences	878	234	0	0	234	0	0	0
Southeast Missouri State U.	879	232	148	60	20	0	4	0
Taylor U.	879	232	3	0	117	100	3	9
Millsaps C.	881	228	216	0	6	1	5	0
New York Law School	882	225	20	0	205	0	0	0
Francis Marion U.	883	216	75	0	0	0	0	141
SUNY, Oneonta	884	214	115	8	78	0	13	0
Washington and Lee U.	884	214	176	0	NA	0	38	0
Hampshire C.	886	212	212	0	0	0	0	0
Westmont C.	887	211	174	0	11	0	26	0
U. Minnesota, Crookston	888	210	10	79	120	0	1	0

TABLE 5

Higher education R&D expenditures at higher education institutions in both survey populations, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Elmhurst U.	889	209		209		0		NA		0		0		0	
Philander Smith C.	890	208	i	208	i	0	i	0	i	0	i	0	i	0	i
Augustana C.	891	205		56		0		87		8		39		15	
Shippensburg U. Pennsylvania	892	204		23		119		0		0		62		0	
Coppin State U.	893	202		168		3		0		0		0		31	
Saint Martin's U.	894	201		147		30		1		1		22		0	
Texas Chiropractic C.	894	201	i	0	i	0	i	189	i	12	i	0	i	0	i
C. Southern Nevada	896	194		183		10		0		0		1		0	
Lasell U.	897	189		0		0		124		0		0		65	
Converse C.	898	185		148		0		0		0		0		37	
Eastern Oregon U.	899	172		150		6		12		0		4		0	
Rider U.	900	170		58		15		94		0		3		0	
Minnesota State U., Moorhead	901	169		89		62		0		0		10		8	
U. Wisconsin-Parkside	901	169		105		15		45		0		4		0	
Le Moyne C.	903	167	i	0	i	0	i	95	i	0	i	55	i	17	i
Earlham C.	904	165		11		0		13		0		27		114	
U. Bridgeport	905	164		59		0		98		0		1		6	
St. Thomas U., Miami Gardens	906	160		117		0		0		0		43		0	
Marist C.	907	156		61		0		31		38		3		23	
Metropolitan State U.	907	156	i	80	i	11	i	44	i	8	i	8	i	5	i
Agnes Scott C.	909	152		99		0		53		0		0		0	
Bethany Global U.	910	150	i	71	i	3	i	54	i	6	i	13	i	3	i
Ferrum C.	910	150		85		0		0		0		65		0	
Geisinger Commonwealth School of Medicine	910	150	i	71	i	3	i	53	i	6	i	13	i	4	i
Pennsylvania State U., Lehigh Valley	910	150		150		0		0		0		0		0	
SUNY, C. Old Westbury	910	150	i	83	i	17	i	34	i	4	i	9	i	3	i
U. Charleston	910	150	i	83	i	2	i	37	i	11	i	13	i	4	i

i = imputed. NA = not available; data were not provided by institution.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions are included in the short form population if they reported less than $1 million in total R&D expenditures during the previous fiscal year. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Alabama	1,188,315
Public	1,166,501
Alabama A&M U.	8,749
Alabama State U.	2,582
Auburn U. System	255,593
Auburn U., Auburn	255,281
Auburn U., Montgomery	312
Jacksonville State U.	1,244
Troy U.	1,692
U. Alabama System	845,074
U. Alabama, Birmingham	618,226
U. Alabama, Huntsville	131,648
U. Alabama, Tuscaloosa	95,200
U. South Alabama	51,102
U. West Alabama	465
Private	21,814
Alabama C., Osteopathic Medicine	303
Oakwood U.	538
Tuskegee U.	20,973
Alaska	177,537
Public (U. Alaska System)	176,276
U. Alaska, Anchorage	22,713
U. Alaska, Fairbanks	152,299
U. Alaska, Southeast	1,264
Private	1,261
Alaska Pacific U.	1,261
Arizona	1,499,135
Public	1,499,135
Arizona Board of Regents	1,498,788
Arizona State U.	673,357
Northern Arizona U.	64,456
U. Arizona	760,975
Dine C.	347
Arkansas	374,015
Public	371,913
Arkansas State U. System	8,640
Arkansas State U., Jonesboro	8,640
Arkansas Tech U.	856
Southern Arkansas U.	275
U. Arkansas System	358,687
U. Arkansas for Medical Sciences	174,549
U. Arkansas, Fayetteville	165,887
U. Arkansas, Little Rock	9,711
U. Arkansas, Pine Bluff	8,540
U. Central Arkansas	3,455
Private	2,102
Arkansas C. of Health Education	900
Hendrix C.	649

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Ouachita Baptist U.	345	i
Philander Smith C.	208	i
California	10,915,094	
Public	7,729,399	
California State U. System	375,077	
California Polytechnic State U., San Luis Obispo	26,605	
California State Polytechnic U., Pomona	7,396	
California State U., Bakersfield	7,053	
California State U., Channel Islands	1,497	
California State U., Chico	4,305	
California State U., Dominguez Hills	2,065	
California State U., East Bay	9,072	
California State U., Fresno	8,856	
California State U., Fullerton	5,929	
California State U., Long Beach	16,684	
California State U., Los Angeles	10,590	
California State U., Maritime Academy	3,202	
California State U., Monterey Bay	5,874	
California State U., Northridge	21,228	
California State U., Sacramento	24,939	
California State U., San Bernardino	10,819	
California State U., San Marcos	13,250	
California State U., Stanislaus	1,843	
Humboldt State U.	14,236	
San Diego State U.	97,710	
San Francisco State U.	33,078	i
San Jose State U.	47,301	
Sonoma State U.	1,545	
Naval Postgraduate School	62,903	
U. California System	7,291,419	
U. California, Berkeley	840,000	
U. California, Davis	816,693	
U. California, Irvine	490,597	
U. California, Los Angeles	1,392,941	
U. California, Merced	45,966	
U. California, Office of the President	60,686	
U. California, Riverside	184,894	
U. California, San Diego	1,403,735	
U. California, San Francisco	1,651,073	
U. California, Santa Barbara	254,434	
U. California, Santa Cruz	150,400	
Private	3,185,695	
Azusa Pacific U.	7,068	
Biola U.	1,187	i
California Institute of Technology	449,651	
California Lutheran U.	630	
Chapman U.	26,660	
Charles R. Drew U. of Medicine and Science	13,682	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Dominican U. California	786	i
Fielding Graduate U.	1,073	
High Tech High Graduate School of Ed.	3,304	
International Technological U.	410	
La Sierra U.	1,647	
Loma Linda U.	25,077	i
Loyola Marymount U.	7,193	
Marshall B. Ketchum U.	1,357	i
Mills C.	1,541	
Occidental C.	2,657	
Palo Alto U.	417	
Pepperdine U.	2,006	
Point Loma Nazarene U.	237	
Santa Clara U.	2,682	
Scripps Research Institute	444,964	
Stanford U.	1,203,950	
The Claremont Colleges	23,928	
Claremont Graduate U.	9,403	
Claremont McKenna C.	5,846	
Claremont School of Theology	443	i
Harvey Mudd C.	2,916	
Keck Graduate Institute	2,152	i
Pitzer C.	313	
Pomona C.	2,855	
Touro C. and U. System[a]	3,551	
Touro U.	3,551	
U. of the Pacific	1,713	
U. San Diego	8,607	
U. San Francisco	2,161	
U. Southern California	941,198	
Western U. of Health Sciences	5,899	
Westmont C.	211	
Whittier C.	248	
Colorado	1,667,572	
Public	1,623,621	
Colorado Mesa U.	452	
Colorado School of Mines	78,517	
Colorado State U. System	410,406	
Colorado State U., Fort Collins	407,302	
Colorado State U., Pueblo	3,104	
Fort Lewis C.	1,370	
Metropolitan State U. of Denver	496	
U. Colorado System	1,085,874	
U. Colorado Boulder	525,674	
U. Colorado Colorado Springs	5,557	
U. Colorado Denver and Anschutz Medical Campus	554,643	
U. Northern Colorado	3,738	
U.S. Air Force Academy	42,197	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Western Colorado U.	571	
Private	43,951	
Colorado C.	2,291	
Regis U.	311	
U. Denver	41,349	
Connecticut	1,404,539	
Public	289,852	
Connecticut State U. System	9,323	
Central Connecticut State U.	1,572	
Eastern Connecticut State U.	1,799	
Southern Connecticut State U.	5,413	
Western Connecticut State U.	539	
U. Connecticut	280,131	
U.S. Coast Guard Academy	398	
Private	1,114,687	
Connecticut C.	1,598	
Fairfield U.	1,210	
Hartford Seminary	345	
Quinnipiac U.	930	i
Sacred Heart U.	1,298	
Trinity C., Hartford	1,428	
U. Bridgeport	164	
U. Hartford	1,436	
U. New Haven	3,843	
Wesleyan U.	8,300	
Yale U.	1,094,135	
Delaware	244,321	
Public	244,321	
Delaware State U.	23,876	i
U. Delaware	220,445	
District of Columbia	684,793	
Public	9,173	
National Defense U.	4,583	
U. of the District of Columbia	4,590	
Private	675,620	
American U.	71,839	
Catholic U. of America	25,221	
Gallaudet U.	4,599	
George Washington U.	270,369	
Georgetown U.	258,659	
Howard U.	44,933	
Florida	2,727,590	
Public (State U. Florida Board of Governors)	2,280,124	
Florida A&M U.	41,319	
Florida Atlantic U.	53,845	
Florida Gulf Coast U.	6,671	
Florida International U.	236,842	
Florida Polytechnic U.	1,091	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Florida State U.	350,430
New C. Florida	999
U. Central Florida	239,343
U. Florida	942,223
U. North Florida	13,573
U. South Florida System	353,737
U. South Florida, Saint Petersburg	18,243
U. South Florida, Sarasota-Manatee	2,150
U. South Florida, Tampa	333,344
U. West Florida	40,051
Private	447,466
Barry U.	237
Bethune-Cookman U.	636
Eckerd C.	406
Embry-Riddle Aeronautical U.	17,786
Florida Institute of Technology	18,271
Jacksonville U.	459
Keiser U.	423
Nova Southeastern U.	26,035
Rollins C.	414
St. Thomas U., Miami Gardens	160
Stetson U.	670
U. Miami	381,410
U. Tampa	559
Georgia	2,785,640
Public (U. System Georgia Board of Regents)	1,880,665
Albany State U.	1,060
Augusta U.	103,961
Clayton State U.	346
Columbus State U.	261
Fort Valley State U.	4,921
Georgia C. and State U.	270
Georgia Gwinnett C.	478
Georgia Institute of Technology	1,048,988
Georgia Southern U.	12,166
Georgia State U.	202,451
Kennesaw State U.	17,954
Middle Georgia State U.	335
Savannah State U.	1,804
U. Georgia	482,786
U. North Georgia	1,905
U. West Georgia	483
Valdosta State U.	496
Private	904,975
Agnes Scott C.	152
Berry C.	646
Clark Atlanta U.	8,452
Emory U.	808,792

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Life U.	429
Mercer U.	49,116
Morehouse C.	4,825
Morehouse School of Medicine	29,813
Spelman C.	2,750
Hawaii	299,318
Public (U. Hawaii System)	297,522
U. Hawaii, Hilo	6,992
U. Hawaii, Manoa	275,929
U. Hawaii, Maui C.	1,033
U. Hawaii, system office	13,568
Private	1,796
Hawaii Pacific U.	1,796
Idaho	171,663
Public	171,255
Boise State U.	43,307
Idaho State U.	14,478
Lewis-Clark State C.	660
U. Idaho	112,810
Private	408
Northwest Nazarene U.	408
Illinois	2,768,246
Public	1,228,806
Chicago State U.	980
Eastern Illinois U.	540
Governors State U.	508
Illinois State U.	32,260
Northeastern Illinois U.	2,018
Northern Illinois U.	25,420
Southern Illinois U. System	59,890
Southern Illinois U., Carbondale	41,617
Southern Illinois U., Edwardsville	18,273
U. Illinois System	1,104,729
U. Illinois, Chicago	412,147
U. Illinois, Springfield	3,406
U. Illinois, Urbana-Champaign	689,176
Western Illinois U.	2,461
Private	1,539,440
Augustana C.	205
Bradley U.	851
DePaul U.	6,557
Elmhurst U.	209
Erikson Institute	1,992
Illinois C. of Optometry	478
Illinois Institute of Technology	29,122
Lake Forest C.	372
Loyola U., Chicago	39,365
Midwestern U.	10,479

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Northwestern U.	874,671
Rosalind Franklin U. of Medicine and Science	14,601
Rush U.	94,438
Toyota Technological Institute, Chicago	5,887
U. Chicago	458,891
Wheaton C., Wheaton	1,322
Indiana	1,739,619
Public	1,509,190
Ball State U.	9,429
Indiana State U.	1,471
Indiana U.	802,743
Indiana U., Bloomington	728,554
Indiana U., Kokomo	483
Indiana U., Northwest	488
Indiana U., South Bend	1,249
Indiana U., Southeast	582
Indiana U.-Purdue U., Indianapolis	71,387
Purdue U.	695,247
Purdue U., Fort Wayne	2,264
Purdue U., Northwest	5,839
Purdue U., West Lafayette	687,144
U. Southern Indiana	300
Private	230,429
Butler U.	679
DePauw U.	253
Earlham C.	165
Indiana Wesleyan U.	316
Manchester U.	286
Taylor U.	232
U. Evansville	245
U. Notre Dame	227,535
Valparaiso U.	718
Iowa	921,010
Public (Iowa Board of Regents)	904,660
Iowa State U.	363,107
U. Iowa	538,583
U. Northern Iowa	2,970
Private	16,350
Coe C.	561
Cornell C.	370
Des Moines U.	5,021
Dordt U.	1,106
Drake U.	1,201
Grinnell C.	5,826
Luther C.	365
Palmer C. of Chiropractic	1,900
Palmer C. of Chiropractic, Davenport	1,900
Kansas	740,466

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
Public (Kansas Board of Regents)	740,466
Emporia State U.	594
Fort Hays State U.	1,172
Kansas State U.	213,900
Pittsburg State U.	2,173
U. Kansas	368,811
Wichita State U.	153,816
Kentucky	641,677
Public (Kentucky Council on Postsecondary Education)	641,301
Eastern Kentucky U.	1,010
Kentucky State U.	7,963
Morehead State U.	1,883
Murray State U.	3,019
Northern Kentucky U.	2,693
U. Kentucky	417,674
U. Louisville	198,818
Western Kentucky U.	8,241
Private	376
Centre C.	376
Louisiana	800,750
Public (State of Louisiana Board of Regents)	582,072
Louisiana State U. System	355,967
Louisiana State U., Baton Rouge	286,733
Louisiana State U., Health Sciences Center, New Orleans	43,419
Louisiana State U., Health Sciences Center, Shreveport	25,321
Louisiana State U., Shreveport	494
Southern U. System	8,634
Southern U. and A&M C., Agricultural Research and Extension Center	4,475
Southern U. and A&M C., Baton Rouge	3,849
Southern U., New Orleans	310
U. Louisiana System	217,471
Grambling State U.	2,427
Louisiana Tech U.	26,585
McNeese State U.	585
Nicholls State U.	650
Northwestern State U. Louisiana	1,940
Southeastern Louisiana U.	2,258
U. Louisiana, Lafayette	164,070
U. Louisiana, Monroe	2,362
U. New Orleans	16,594
Private	218,678
Dillard U.	2,523
Loyola U., New Orleans	338
Tulane U.	204,430
Xavier U. Louisiana	11,387
Maine	152,224
Public	138,780
U. Maine System	138,780

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. Maine	132,184
U. Maine Farmington	961
U. Southern Maine	5,635
Private	13,444
Bates C.	2,303
Bowdoin C.	2,719
Colby C.	1,536
U. New England	6,886
Maryland	4,747,323
Public	1,635,294
Morgan State U.	17,193
St. Mary's C. Maryland	556
U. System Maryland	1,279,912
Bowie State U.	1,967
Coppin State U.	202
Salisbury U.	9,496
Towson U.	3,612
U. Baltimore	15,054
U. Maryland[b]	1,103,062
U. Maryland Center for Environmental Science	54,560
U. Maryland, Baltimore County	83,867
U. Maryland, Eastern Shore	8,092
U.S. Naval Academy	13,123
Uniformed Services U. of the Health Sciences	324,510
Private	3,112,029
Goucher C.	245
Johns Hopkins U.[c]	3,110,494
Loyola U., Maryland	672
Maryland Institute C. of Art	618
Massachusetts	4,366,083
Public	689,643
Massachusetts System of Public Higher Education	2,662
Bridgewater State U.	345
Framingham State U.	2,317
U. Massachusetts System	686,981
U. Massachusetts, Amherst	219,389
U. Massachusetts, Boston	64,219
U. Massachusetts, central office	5,225
U. Massachusetts, Dartmouth	26,836
U. Massachusetts, Lowell	92,216
U. Massachusetts, Medical School	279,096
Private	3,676,440
Amherst C.	4,906
Babson C.	2,352
Bentley U.	777
Boston C.	63,063
Boston U.	583,267
Brandeis U.	63,201

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
C. of the Holy Cross	321	
Clark U.	10,277	
Emerson C.	919	
Franklin W. Olin C. of Engineering	1,404	
Hampshire C.	212	
Harvard U.	1,239,983	
Hult International Business School	910	i
Lasell U.	189	
Massachusetts Institute of Technology	987,968	
MCPHS U.	473	
Merrimack C.	503	
MGH Institute of Health Professions	3,549	
Mount Holyoke C.	2,016	
New England C. of Optometry	1,150	
Northeastern U.	200,068	
Simmons U.	604	
Smith C.	4,685	
Stonehill C.	833	
Suffolk U.	2,106	
Tufts U.	216,241	
Wellesley C.	8,088	
Western New England U.	505	
Wheaton C., Norton	281	
Williams C.	4,924	i
Woods Hole Oceanographic Institution	227,573	
Worcester Polytechnic Institute	43,092	
Michigan	2,869,739	
Public	2,794,282	
Central Michigan U.	17,448	
Eastern Michigan U.	9,088	
Ferris State U.	394	
Grand Valley State U.	6,792	
Lake Superior State U.	935	
Michigan State U.	713,197	
Michigan Technological U.	77,927	
Northern Michigan U.	1,523	
Oakland U.	12,949	
Saginaw Valley State U.	2,343	
U. Michigan	1,683,886	
U. Michigan, Ann Arbor	1,673,862	
U. Michigan, Dearborn	8,777	
U. Michigan, Flint	1,247	
Wayne State U.	243,259	
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541	
Private	75,457	
Albion C.	1,132	
Andrews U.	1,033	
Calvin U.	1,497	i

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Hope C.	3,822	
Kalamazoo C.	603	i
Kettering U.	2,081	
Lawrence Technological U.	1,521	
U. Detroit Mercy	4,786	
Van Andel Research Institute	58,982	
Minnesota	1,092,238	
Public	1,077,117	
Minnesota State Colleges and Universities System	6,651	
Metropolitan State U.	156	i
Minnesota State U., Mankato	2,754	
Minnesota State U., Moorhead	169	
St. Cloud State U.	3,056	
Winona State U.	516	
U. Minnesota	1,070,466	
U. Minnesota, Crookston	210	
U. Minnesota, Duluth	26,137	
U. Minnesota, Morris	1,004	
U. Minnesota, Rochester	733	
U. Minnesota, Twin Cities	1,042,382	
Private	15,121	
Augsburg U.	883	
Bethany Global U.	150	i
C. of Saint Benedict	1,069	i
Carleton C.	3,732	
Concordia C., Moorhead	275	
Gustavus Adolphus C.	843	
Macalester C.	1,755	
Saint John's U., Collegeville	1,130	i
Saint Mary's U. Minnesota	610	
St. Catherine U.	963	
St. Olaf C.	1,032	
U. of St. Thomas (MN)	2,679	
Mississippi	508,133	
Public (Mississippi State Institutions of Higher Learning)	505,803	
Alcorn State U.	13,710	
Delta State U.	592	
Jackson State U.	15,081	
Mississippi State U.	280,485	
Mississippi Valley State U.	653	
U. Mississippi	122,960	
U. Southern Mississippi	72,322	
Private	2,330	
Millsaps C.	228	
Tougaloo C.	2,102	
Missouri	1,447,156	
Public (Missouri Department of Higher Education)	451,271	
Lincoln U., Jefferson City	5,777	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Missouri State U.	13,131	
Missouri Western State U.	306	
Northwest Missouri State U.	239	
Southeast Missouri State U.	232	
Truman State U.	296	
U. Central Missouri	401	
U. Missouri System	430,889	
Missouri U. of Science and Technology	47,001	
U. Missouri, Columbia	332,180	
U. Missouri, Kansas City	36,356	
U. Missouri, Saint Louis	15,352	
Private	995,885	
A. T. Still U.	656	
Graduate School of the Stowers Institute for Medical Research	416	
Kansas City U. of Medicine and Biosciences	235	
Saint Louis U.	69,528	
U. of Health Sciences and Pharmacy in St. Louis	4,835	
Washington U., Saint Louis	920,215	
Montana	291,018	
Public (Montana U. System)	291,018	
Montana State U.	167,006	
Montana State U., Billings	399	
Montana State U., Bozeman	166,285	
Montana State U., Northern	322	
Salish Kootenai C.	807	
U. Montana	123,205	
Montana Technological U.	12,987	
U. Montana, Missoula	110,218	
Nebraska	586,777	
Public	565,315	
U. Nebraska System	565,315	
U. Nebraska, central administration	23,672	
U. Nebraska, Kearney	2,640	
U. Nebraska, Lincoln	320,463	
U. Nebraska, Medical Center	202,406	
U. Nebraska, Omaha	16,134	
Private	21,462	
Creighton U.	20,339	
Doane U.	1,123	i
Nevada	297,225	
Public (Nevada System of Higher Education)	292,845	
C. Southern Nevada	194	
Desert Research Institute	26,428	
Nevada State C.	561	
U. Nevada, Las Vegas	105,872	
U. Nevada, Reno	159,790	
Private	4,380	
Roseman U. of Health Sciences	4,380	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
New Hampshire	484,977
Public (U. System of New Hampshire)	158,628
Keene State C.	1,063
Plymouth State U.	664
U. New Hampshire	156,901
Private	326,349
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349
New Jersey	1,387,131
Public	937,609
C. New Jersey	1,464
Kean U.	2,201
Montclair State U.	17,636
New Jersey City U.	262
New Jersey Institute of Technology	155,715
Ramapo C. New Jersey	441
Rowan U.	26,018
Rutgers, the State U. of New Jersey	720,033
Rutgers, State U. New Jersey, Camden	3,950
Rutgers, State U. New Jersey, New Brunswick	688,077
Rutgers, State U. New Jersey, Newark	28,006
Stockton U.	4,236
William Paterson U.	9,603
Private	449,522
Fairleigh Dickinson U.	656
Monmouth U.	1,729
Princeton U.	396,502
Rider U.	170
Seton Hall U.	5,718
Stevens Institute of Technology	44,747
New Mexico	377,093
Public (New Mexico Higher Education Department)	377,093
Eastern New Mexico U., Portales	358
New Mexico Highlands U.	1,090
New Mexico Institute of Mining and Technology	24,591
New Mexico State U.	107,275
Northern New Mexico C.	404
U. New Mexico	243,375
New York	7,165,482
Public	1,595,049
CUNY System	166,436
CUNY, Advanced Science Research Center	11,373
CUNY, Baruch C.	2,396
CUNY, Brooklyn C.	7,074
CUNY, C. Staten Island	3,682
CUNY, City C.	45,632
CUNY, Graduate Center	4,787
CUNY, Graduate School of Public Health and Health Policy	12,177
CUNY, Hunter C.	38,345

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
CUNY, John Jay C. of Criminal Justice	13,939	
CUNY, Lehman C.	4,154	
CUNY, Medgar Evers C.	882	
CUNY, New York City C. of Technology	2,130	
CUNY, Queens C.	16,470	
CUNY, system office	1,704	
CUNY, York C.	1,691	
SUNY System	1,416,140	
SUNY, Binghamton U.	117,870	
SUNY, Buffalo State	2,253	
SUNY, C. Brockport	1,719	
SUNY, C. Cortland	255	
SUNY, C. of Environmental Science and Forestry	29,296	
SUNY, C. of Optometry	3,477	
SUNY, C. Old Westbury	150	i
SUNY, C. Plattsburgh	1,452	
SUNY, Cobleskill	625	
SUNY, Delhi	726	
SUNY, Downstate Medical Center	33,204	
SUNY, Farmingdale State C.	589	
SUNY, Geneseo	1,642	
SUNY, New Paltz	330	
SUNY, Oneonta	214	
SUNY, Oswego	1,534	
SUNY, Polytechnic Institute	355,651	
SUNY, Stony Brook U.	263,470	
SUNY, U. Albany	138,088	
SUNY, U. Buffalo	422,038	
SUNY, Upstate Medical U.	41,557	
U.S. Military Academy	12,473	
Private	5,570,433	
Adelphi U.	369	i
Albany C. of Pharmacy and Health Sciences	3,765	
Albany Medical C.	23,510	
Albert Einstein C. of Medicine	288,654	
Alfred U.	2,780	
Bard C.	242	
Barnard C.	3,748	
Canisius C.	1,094	
Clarkson U.	15,104	
Cold Spring Harbor Laboratory	115,198	
Colgate U.	2,913	
Columbia U. in the City of New York	1,032,909	
Cooper Union for the Advancement of Science and Art	501	
Cornell U.	1,190,063	
D'Youville C.	382	
Fordham U.	20,456	
Hamilton C.	1,869	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Hobart and William Smith Colleges	2,114	
Hofstra U.	1,445	
Icahn School of Medicine at Mount Sinai	747,014	
Iona C.	239	
Ithaca C.	1,199	
Le Moyne C.	167	i
Long Island U.	13,997	
Manhattan C.	1,307	
Marist C.	156	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,737	
New School	13,186	
New York Institute of Technology	3,580	
New York Law School	225	
New York U.	947,293	
Niagara U.	1,124	
Northeast C. of Health Sciences	234	
Pace U.	4,272	
Rensselaer Polytechnic Institute	107,623	
Rochester Institute of Technology	57,777	
Rockefeller U.	356,217	
Sarah Lawrence C.	355	
Siena C.	884	
Skidmore C.	2,412	
St. Bonaventure U.	585	
St. John's U., New York	3,282	
St. Lawrence U.	441	
Syracuse U.	149,652	
Teachers C., Columbia U.	22,630	
Touro C. and U. System[a]	20,576	
New York Medical C.	20,137	
Touro C.	439	
U. Rochester	397,211	
Union C., Schenectady	1,062	
Utica C.	549	
Vassar C.	1,568	
Yeshiva U.	2,763	
North Carolina	3,386,079	
Public (U. North Carolina)	1,938,095	
Appalachian State U.	4,894	
East Carolina U.	57,820	
Elizabeth City State U.	1,473	
Fayetteville State U.	2,797	
North Carolina Agricultural and Technical State U.	36,151	
North Carolina Central U.	15,833	
North Carolina State U.	546,290	
U. North Carolina, Asheville	4,789	
U. North Carolina, Chapel Hill	1,159,725	
U. North Carolina, Charlotte	50,050	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures
U. North Carolina, general administration	3,942
U. North Carolina, Greensboro	28,966
U. North Carolina, Pembroke	344
U. North Carolina, Wilmington	16,544
Western Carolina U.	2,696
Winston-Salem State U.	5,781
Private	1,447,984
Davidson C.	2,263
Duke U.	1,196,638
Elon U.	1,968
Johnson C. Smith U.	2,472
Wake Forest U.	244,643
North Dakota	269,046
Public (North Dakota U. System)	268,070
Mayville State U.	509
Minot State U.	253
North Dakota State U.	155,645
U. North Dakota	111,663
Private	976
United Tribes Technical C.	976
Ohio	2,522,363
Public	1,911,016
Air Force Institute of Technology	35,584
U. System Ohio Board of Regents	1,875,432
Bowling Green State U.	18,729
Central State U.	6,107
Cleveland State U.	78,189
Kent State U.	50,307
Miami U.	24,489
Northeast Ohio Medical U.	15,758
Ohio State U.	968,260
Ohio U.	51,914
U. Akron	23,496
U. Cincinnati	530,138
U. Toledo	54,100
Wright State U.	49,825
Youngstown State U.	4,120
Private	611,347
C. Wooster	1,076
Case Western Reserve U.	439,778
Denison U.	727
Heidelberg U.	1,125
John Carroll U.	1,865
Kenyon C.	908
Oberlin C.	1,182
Ohio Northern U.	348
Ohio Wesleyan U.	323
U. Dayton	163,718

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Wittenberg U.	297	
Oklahoma	605,255	
Public (Oklahoma State System of Higher Education)	586,468	
Oklahoma Agricultural and Mechanical Colleges	209,847	
Langston U.	14,409	
Oklahoma State U., Center for Health Sciences	8,378	
Oklahoma State U., Stillwater	187,060	
Regional University System of Oklahoma	6,929	
East Central U.	251	
Northeastern State U.	406	
Southwestern Oklahoma State U.	484	
U. Central Oklahoma	5,788	i
U. Oklahoma	369,692	
U. Oklahoma, Norman and Health Science Center	362,209	
U. Oklahoma, Tulsa	7,483	
Private	18,787	
U. Tulsa	18,787	
Oregon	896,510	
Public	878,133	
Eastern Oregon U.	172	
Oregon Health and Science U.	446,890	
Oregon Institute of Technology	4,267	
Oregon State U.	268,385	
Portland State U.	43,667	
Southern Oregon U.	493	
U. Oregon	114,259	
Private	18,377	
Lewis and Clark C.	3,350	
Linfield C.	319	
National U. of Natural Medicine	1,428	
Pacific U.	5,842	
Reed C.	5,155	
U. Portland	737	
Willamette U.	1,546	
Pennsylvania	4,838,331	
Public	2,422,452	
Pennsylvania State System of Higher Education	15,945	
Bloomsburg U. Pennsylvania	735	
East Stroudsburg U. Pennsylvania	797	
Indiana U. Pennsylvania	6,531	
Kutztown U. Pennsylvania	472	
Millersville U. Pennsylvania	402	
Shippensburg U. Pennsylvania	204	
Slippery Rock U. Pennsylvania	390	
West Chester U. Pennsylvania	6,414	
Pennsylvania State U.	996,768	
Pennsylvania State U., Altoona	714	
Pennsylvania State U., Behrend	1,743	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Pennsylvania State U., Berks	372	
Pennsylvania State U., Harrisburg	1,866	
Pennsylvania State U., Lehigh Valley	150	
Pennsylvania State U., University Park and Hershey Medical Center	991,923	
Temple U.	299,707	
U. Pittsburgh	1,105,532	
U. Pittsburgh, Pittsburgh	1,105,532	
U.S. Army War C.	4,500	
Private	2,415,879	
Allegheny C.	449	
Arcadia U.	1,072	
Bryn Athyn C.	432	
Bryn Mawr C.	11,575	
Bucknell U.	5,339	i
Carnegie Mellon U.	386,996	
Dickinson C.	929	
Drexel U.	143,123	
Duquesne U.	17,485	
Franklin and Marshall C.	3,623	
Gannon U.	351	
Geisinger Commonwealth School of Medicine	150	i
Gettysburg C.	913	
Haverford C.	4,473	
Juniata C.	937	
La Salle U.	818	
Lafayette C.	1,390	
Lake Erie C. of Osteopathic Medicine	472	
Lehigh U.	38,064	
Mercyhurst U.	1,850	i
Moravian C.	309	
Muhlenberg C.	398	
Philadelphia C. of Osteopathic Medicine	3,360	
Saint Francis U.	878	
Saint Joseph's U.	3,150	
Salus U.	650	
Susquehanna U.	496	
Swarthmore C.	3,544	
Thomas Jefferson U.	171,377	
U. of the Sciences Philadelphia	3,761	
U. Pennsylvania	1,579,364	
U. Scranton	595	
Ursinus C.	497	
Villanova U.	25,505	
Widener U., Chester	586	
Wilkes U.	968	
Rhode Island	396,623	
Public	126,005	
Naval War C.	5,944	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Rhode Island Board of Governors for Higher Education	120,061	
Rhode Island C.	10,094	
U. Rhode Island	109,967	
Private	270,618	
Brown U.	266,127	
Bryant U.	302	
Providence C.	1,092	
Rhode Island School of Design	975	i
Roger Williams U.	1,531	
Salve Regina U.	591	
South Carolina	744,479	
Public	739,149	
C. Charleston	5,728	
Citadel Military C. South Carolina	1,012	
Clemson U.	228,597	
Coastal Carolina U.	1,903	
Francis Marion U.	216	
Medical U. South Carolina	272,590	
South Carolina State U.	3,796	i
U. South Carolina	223,090	
U. South Carolina Upstate	437	
U. South Carolina, Aiken	2,590	
U. South Carolina, Beaufort	599	
U. South Carolina, Columbia	219,464	
Winthrop U.	2,217	
Private	5,330	
Benedict C.	649	
Claflin U.	1,910	
Coker U.	485	
Converse C.	185	
Furman U.	2,101	
South Dakota	112,413	
Public	111,375	
Oglala Lakota C.	516	
South Dakota Board of Regents	110,859	
Black Hills State U.	1,499	
Dakota State U.	4,412	
Northern State U.	240	
South Dakota School of Mines and Technology	14,490	
South Dakota State U.	60,939	
U. South Dakota	29,279	
Private	1,038	
Augustana U.	1,038	
Tennessee	1,400,529	
Public	555,642	
Tennessee Board of Regents System	124,380	
Austin Peay State U.	2,833	
East Tennessee State U.	13,925	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Middle Tennessee State U.	8,697	
Tennessee State U.	15,377	
Tennessee Technological U.	14,085	
U. Memphis	69,463	
U. Tennessee System	431,262	
U. Tennessee, Chattanooga	10,834	
U. Tennessee, Health Science Center	99,716	
U. Tennessee, Knoxville[d]	320,407	
U. Tennessee, Martin	305	
Private	844,887	
Fisk U.	3,904	
Lipscomb U.	1,000	i
Meharry Medical C.	13,870	
Sewanee: U. of the South	864	
Southern C. of Optometry	446	
Vanderbilt U. and Vanderbilt U. Medical Center	824,803	
Texas	6,626,222	
Public	5,625,088	
Midwestern State U.	891	
Stephen F. Austin State U.	3,672	
Texas A&M U. System	1,234,088	
Prairie View A&M U.	18,723	
Tarleton State U.	14,890	
Texas A&M International U.	3,067	
Texas A&M U., College Station and Health Science Center	1,130,803	
Texas A&M U.-Central Texas	623	
Texas A&M U.-Commerce	4,166	
Texas A&M U.-Corpus Christi	32,284	
Texas A&M U.-Kingsville	22,745	
Texas A&M U.-San Antonio	567	
West Texas A&M U.	6,220	
Texas Southern U.	4,782	
Texas State U. System	89,546	
Lamar U.	4,327	
Sam Houston State U.	12,437	
Sul Ross State U.	2,068	
Texas State U.	70,714	
Texas Tech U. System	254,997	
Angelo State U.	798	
Texas Tech U.	199,643	
Texas Tech U., Health Sciences Center	44,135	
Texas Tech U., Health Sciences Center, El Paso	10,421	
Texas Woman's U.	4,135	
U. Houston System	204,604	
U. Houston	200,428	
U. Houston system administration	514	
U. Houston-Clear Lake	1,363	
U. Houston-Downtown	2,299	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. North Texas System	131,631	
U. North Texas, Denton	84,239	
U. North Texas, Health Science Center	47,392	
U. Texas System	3,696,742	
U. Texas Health Science Center, Houston	273,862	
U. Texas Health Science Center, San Antonio	202,572	
U. Texas Health Science Center, Tyler	21,265	
U. Texas M. D. Anderson Cancer Center	1,051,297	
U. Texas Medical Branch	180,595	
U. Texas of the Permian Basin	2,105	
U. Texas Rio Grande Valley	56,702	
U. Texas Southwestern Medical Center	595,939	
U. Texas, Arlington	133,793	
U. Texas, Austin	797,199	
U. Texas, Dallas	132,192	
U. Texas, El Paso	108,628	
U. Texas, San Antonio	138,586	
U. Texas, Tyler	2,007	
Private	1,001,134	
Abilene Christian U.	2,631	
Austin C.	342	
Baylor C. of Medicine	685,641	
Baylor U.	39,765	
LeTourneau U.	271	
Rice U.	198,681	
Southern Methodist U.	43,081	
Southwestern U.	261	
St. Edward's U.	9,619	
St. Mary's U., San Antonio	374	
Texas Chiropractic C.	201	i
Texas Christian U.	15,326	
Trinity U.	3,472	
U. of the Incarnate Word	1,469	
Utah	951,853	
Public (Utah System of Higher Education)	913,284	
Southern Utah U.	955	
U. Utah	607,061	
Utah State U.	304,256	
Utah Valley U.	336	
Weber State U.	676	
Private	38,569	
Brigham Young U., Provo	38,569	
Vermont	194,573	
Public	191,147	
U. Vermont	191,147	
Private	3,426	
Middlebury C.	1,720	
Norwich U.	749	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Saint Michael's C.	957	
Virginia	1,926,709	
Public	1,902,263	
Christopher Newport U.	2,608	
Eastern Virginia Medical School	20,870	
George Mason U.	221,006	
James Madison U.	10,247	
Longwood U.	368	
Norfolk State U.	7,153	
Old Dominion U.	65,704	
Radford U.	774	
U. of Mary Washington	1,393	
U. Virginia's C. Wise	2,434	
U. Virginia, Charlottesville	652,002	
Virginia Commonwealth U.	283,874	
Virginia Military Institute	712	
Virginia Polytechnic Institute and State U.	556,341	
Virginia State U.	10,014	
William & Mary	66,763	
Private	24,446	
Eastern Mennonite U.	236	
Edward Via C. of Osteopathic Medicine	7,475	
Ferrum C.	150	
Hampton U.	11,402	
Liberty U.	1,894	
Roanoke C.	606	
U. Richmond	2,469	
Washington and Lee U.	214	
Washington	1,830,928	
Public	1,823,591	
Central Washington U.	2,674	
Eastern Washington U.	2,282	
Evergreen State C.	390	
Northwest Indian C.	2,708	i
U. Washington	1,467,513	
U. Washington, Bothell	7,107	
U. Washington, Seattle	1,456,902	
U. Washington, Tacoma	3,504	
Washington State U.	335,201	
Western Washington U.	12,823	
Private	7,337	
Bastyr U.	250	
Gonzaga U.	506	
Pacific Lutheran U.	449	
Pacific Northwest U. of Health Sciences	808	
Saint Martin's U.	201	
Seattle Pacific U.	643	
Seattle U.	2,060	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
U. Puget Sound	895	
Whitman C.	865	
Whitworth U.	660	
West Virginia	219,680	
Public (West Virginia Higher Education Policy Commission)	219,011	
Bluefield State C.	485	
Marshall U.	22,250	
West Liberty U.	738	
West Virginia School of Osteopathic Medicine	1,311	
West Virginia State U.	5,775	
West Virginia U.	188,452	
Private	669	
Future Generations U.	271	i
U. Charleston	150	i
Wheeling U.	248	
Wisconsin	1,750,617	
Public (U. Wisconsin System)	1,443,608	
U. Wisconsin-Eau Claire	1,318	
U. Wisconsin-Green Bay	1,982	
U. Wisconsin-La Crosse	2,795	
U. Wisconsin-Madison	1,363,931	
U. Wisconsin-Milwaukee	61,069	
U. Wisconsin-Oshkosh	1,777	i
U. Wisconsin-Parkside	169	
U. Wisconsin-Platteville	1,104	i
U. Wisconsin-River Falls	1,107	
U. Wisconsin-Stevens Point	4,764	
U. Wisconsin-Stout	555	
U. Wisconsin-Superior	2,301	
U. Wisconsin-Whitewater	736	
Private	307,009	
Alverno C.	237	
Concordia U., Wisconsin	293	
Lawrence U.	423	
Marquette U.	37,136	
Medical C. Wisconsin	264,325	
Milwaukee School of Engineering	3,190	
Northland C.	1,101	
St. Norbert C.	304	
Wyoming	93,061	
Public (Wyoming Department of Education)	93,061	
U. Wyoming	93,061	
American Samoa	1,536	
Public	1,536	
American Samoa Community C.	1,536	
Guam	13,043	
Public (U. Guam Board of Regents)	13,043	
U. Guam	13,043	

TABLE 6

Higher education R&D expenditures at institutions in both survey populations, by state, institutional control, system, and institution: FY 2020

(Dollars in thousands)

State, institutional control, system, and institution	All R&D expenditures	
Puerto Rico	117,674	
Public (U. Puerto Rico)	91,320	
U. Puerto Rico, Aguadilla	562	
U. Puerto Rico, Cayey	1,974	
U. Puerto Rico, Humacao	1,456	
U. Puerto Rico, Mayaguez	26,553	
U. Puerto Rico, Medical Sciences Campus	37,217	
U. Puerto Rico, Ponce	663	i
U. Puerto Rico, Rio Piedras	22,895	
Private	26,354	
Ana G. Mendez U. System	3,514	
U. Ana G. Mendez, Carolina	647	
U. Ana G. Mendez, Cupey	818	
U. Ana G. Mendez, Gurabo	2,049	
Carlos Albizu U.	3,679	
Polytechnic U. Puerto Rico	813	
Ponce Health Sciences U.	13,566	
Pontifical Catholic U. Puerto Rico, Ponce	239	
San Juan Bautista School of Medicine	612	
U. Central del Caribe	3,931	
Virgin Islands	13,631	
Public	13,631	
U. of the Virgin Islands	13,631	

i = imputed.

[a] The Touro College and University System is a private higher education institution with campuses in the states of California, Nevada, and New York. FY 2020 research expenditures across all campuses total $24,127 thousand.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[d] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 7

Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2020

(Dollars in millions)

Fiscal year	Total					Federal				
		Basic research		Applied research and experimental development			Basic research		Applied research and experimental development	
	All R&D expenditures	Amount	Percent	Amount	Percent	All federal R&D expenditures	Amount	Percent	Amount	Percent
Total, S&E[a]										
1953	255	110	43.1	145	56.9	138	na	na	na	na
1954	290	136	46.9	154	53.1	160	na	na	na	na
1955	312	159	51.0	153	49.0	169	na	na	na	na
1956	372	200	53.8	172	46.2	213	na	na	na	na
1957	410	240	58.5	170	41.5	229	na	na	na	na
1958	456	281	61.6	175	38.4	254	na	na	na	na
1959	526	343	65.2	183	34.8	306	na	na	na	na
1960	646	433	67.0	213	33.0	405	na	na	na	na
1961	763	536	70.2	227	29.8	500	na	na	na	na
1962	904	659	72.9	245	27.1	613	na	na	na	na
1963	1,081	814	75.3	267	24.7	760	na	na	na	na
1964	1,275	1,003	78.7	272	21.3	917	na	na	na	na
1965	1,474	1,138	77.2	336	22.8	1,073	na	na	na	na
1966	1,715	1,303	76.0	412	24.0	1,261	na	na	na	na
1967	1,921	1,457	75.8	464	24.2	1,409	na	na	na	na
1968	2,149	1,650	76.8	499	23.2	1,572	na	na	na	na
1969	2,225	1,711	76.9	514	23.1	1,600	na	na	na	na
1970	2,335	1,796	76.9	539	23.1	1,647	na	na	na	na
1971	2,500	1,914	76.6	586	23.4	1,724	na	na	na	na
1972	2,630	2,022	76.9	608	23.1	1,795	1,420	79.1	375	20.9
1973	2,884	2,053	71.2	831	28.8	1,985	1,454	73.2	531	26.8
1974	3,023	2,154	71.3	869	28.7	2,032	1,523	74.9	509	25.1
1975	3,409	2,410	70.7	999	29.3	2,288	1,695	74.1	593	25.9
1976	3,729	2,549	68.4	1,180	31.6	2,512	1,841	73.3	671	26.7
1977	4,067	2,800	68.8	1,267	31.2	2,726	2,007	73.6	720	26.4
1978[b]	4,625	na	na	na	na	3,059	na	na	na	na
1979	5,366	3,619	67.4	1,747	32.6	3,598	2,577	71.6	1,022	28.4
1980	6,063	4,036	66.6	2,026	33.4	4,098	2,861	69.8	1,237	30.2
1981	6,847	4,594	67.1	2,253	32.9	4,571	3,260	71.3	1,311	28.7
1982	7,324	4,879	66.6	2,445	33.4	4,768	3,402	71.3	1,367	28.7
1983	7,882	5,303	67.3	2,579	32.7	4,989	3,547	71.1	1,442	28.9
1984	8,620	5,733	66.5	2,887	33.5	5,431	3,830	70.5	1,601	29.5
1985	9,687	6,556	67.7	3,131	32.3	6,064	4,343	71.6	1,722	28.4
1986	10,928	7,492	68.6	3,435	31.4	6,712	4,868	72.5	1,844	27.5
1987	12,153	8,393	69.1	3,760	30.9	7,343	5,375	73.2	1,968	26.8
1988	13,463	8,894	66.1	4,569	33.9	8,193	5,678	69.3	2,515	30.7
1989	14,979	9,793	65.4	5,186	34.6	8,993	6,195	68.9	2,797	31.1
1990	16,290	10,645	65.3	5,645	34.7	9,640	6,649	69.0	2,991	31.0
1991	17,589	11,607	66.0	5,982	34.0	10,238	7,128	69.6	3,110	30.4
1992	18,821	12,516	66.5	6,305	33.5	11,095	7,718	69.6	3,377	30.4
1993	19,954	13,303	66.7	6,651	33.3	11,960	8,398	70.2	3,562	29.8
1994	21,035	13,989	66.5	7,046	33.5	12,654	8,878	70.2	3,775	29.8
1995	22,179	14,812	66.8	7,367	33.2	13,337	9,399	70.5	3,938	29.5
1996	23,055	15,481	67.1	7,574	32.9	13,847	9,868	71.3	3,978	28.7
1997	24,380	16,602	68.1	7,778	31.9	14,321	10,316	72.0	4,006	28.0

TABLE 7

Total and federally financed higher education R&D expenditures, by type of R&D: FYs 1953–2020

(Dollars in millions)

Fiscal year	Total					Federal				
	All R&D expenditures	Basic research		Applied research and experimental development		All federal R&D expenditures	Basic research		Applied research and experimental development	
		Amount	Percent	Amount	Percent		Amount	Percent	Amount	Percent
1998	25,867	19,058	73.7	6,810	26.3	15,159	11,862	78.2	3,298	21.8
1999	27,544	20,450	74.2	7,094	25.8	16,112	12,746	79.1	3,365	20.9
2000	30,084	22,547	74.9	7,537	25.1	17,548	13,936	79.4	3,611	20.6
2001	32,801	24,392	74.4	8,409	25.6	19,227	15,038	78.2	4,188	21.8
2002	36,383	27,363	75.2	9,019	24.8	21,856	17,262	79.0	4,593	21.0
2003	40,077	30,105	75.1	9,973	24.9	24,753	19,627	79.3	5,126	20.7
2004	43,238	31,957	73.9	11,281	26.1	27,627	21,353	77.3	6,274	22.7
2005	45,774	34,353	75.0	11,421	25.0	29,187	22,885	78.4	6,302	21.6
2006	47,759	36,082	75.5	11,677	24.5	30,132	23,697	78.6	6,434	21.4
2007	49,495	37,726	76.2	11,769	23.8	30,430	24,001	78.9	6,429	21.1
2008	51,872	39,322	75.8	12,550	24.2	31,272	24,430	78.1	6,842	21.9
2009	54,863	40,913	74.6	13,950	25.4	32,576	25,025	76.8	7,551	23.2
Total, S&E and non-S&E[a]										
2010	61,287	40,880	66.7	20,407	33.3	37,478	25,617	68.4	11,860	31.6
2011	65,274	43,332	66.4	21,943	33.6	40,768	27,573	67.6	13,195	32.4
2012	65,729	42,939	65.3	22,790	34.7	40,142	26,704	66.5	13,438	33.5
2013	67,013	43,831	65.4	23,182	34.6	39,446	26,289	66.6	13,157	33.4
2014	67,199	43,477	64.7	23,722	35.3	37,961	25,110	66.1	12,851	33.9
2015	68,550	44,230	64.5	24,320	35.5	37,847	25,133	66.4	12,713	33.6
2016	71,768	45,510	63.4	26,258	36.6	38,789	25,162	64.9	13,626	35.1
2017	75,147	46,912	62.4	28,235	37.6	40,249	25,848	64.2	14,400	35.8
2018	79,026	49,618	62.8	29,408	37.2	41,863	26,901	64.3	14,962	35.7
2019	83,534	52,504	62.9	31,030	37.1	44,483	28,646	64.4	15,837	35.6
2020	86,296	54,133	62.7	32,163	37.3	46,144	29,311	63.5	16,832	36.5

na = not applicable; separate data for federally financed basic research, applied research, and experimental development were not collected for these years.

S&E = science and engineering.

[a] Totals for FYs 1953–2009 represent R&D expenditures in S&E fields only. Beginning in FY 2010, totals and type of R&D data include R&D expenditures in S&E fields and non-S&E fields.

[b] FY 1978 data are estimated based on data collected from doctorate-granting institutions only.

Note(s):

Type of R&D estimation procedure was revised for FY 1998 and later years; hence, these data are not directly comparable to data for FY 1997 and earlier years. Prior to FY 2010, R&D expenditures by type of R&D were based on percentage estimates of basic research provided by universities and colleges. Beginning in FY 2010, institutions were asked for dollar amounts of federally funded and nonfederally funded R&D expenditures for basic research, applied research, and experimental development. Because of rounding, detail may not add to total.

Source(s):

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 8

Higher education R&D expenditures, by source of funds and type of R&D: FYs 2010–20

(Dollars in thousands)

Fiscal year	Total				Federal				Nonfederal			
	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development
2010	61,286,610	40,879,634	15,236,695	5,170,281	37,477,582	25,617,372	9,237,600	2,622,610	23,809,028	15,262,262	5,999,095	2,547,671
2011	65,274,393	43,331,577	16,461,995	5,480,821	40,768,251	27,573,247	10,361,378	2,833,626	24,506,142	15,758,330	6,100,617	2,647,195
2012	65,729,007	42,939,338	17,001,462	5,788,207	40,142,223	26,704,465	10,437,765	2,999,993	25,586,784	16,234,873	6,563,697	2,788,214
2013	67,013,138	43,830,773	17,112,016	6,070,349	39,445,931	26,289,022	10,201,310	2,955,599	27,567,207	17,541,751	6,910,706	3,114,750
2014	67,199,090	43,476,722	17,492,904	6,229,464	37,961,118	25,109,901	9,903,874	2,947,343	29,237,972	18,366,821	7,589,030	3,282,121
2015	68,549,882	44,230,337	17,731,433	6,588,112	37,846,802	25,133,372	9,826,850	2,886,580	30,703,080	19,096,965	7,904,583	3,701,532
2016	71,767,849	45,509,703	19,636,032	6,622,114	38,788,615	25,162,233	10,734,361	2,892,021	32,979,234	20,347,470	8,901,671	3,730,093
2017	75,147,144	46,911,936	21,091,214	7,143,994	40,248,797	25,848,424	11,397,515	3,002,858	34,898,347	21,063,512	9,693,699	4,141,136
2018	79,026,269	49,617,836	22,007,522	7,400,911	41,863,137	26,900,830	11,863,786	3,098,521	37,163,132	22,717,006	10,143,736	4,302,390
2019	83,534,148	52,503,832	23,350,391	7,679,925	44,482,526	28,645,680	12,556,103	3,280,743	39,051,622	23,858,152	10,794,288	4,399,182
2020	86,296,178	54,132,952	24,118,269	8,044,957	46,143,829	29,311,388	13,074,455	3,757,986	40,152,349	24,821,564	11,043,814	4,286,971

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 9

Higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All R&D fields	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,144	79,026,269	83,534,148	86,296,178
Science	49,061,829	51,955,427	51,914,870	52,620,458	52,790,062	53,865,410	56,261,425	58,935,309	62,021,111	65,452,989	67,567,807
Computer and information sciences	1,638,047	1,742,486	1,822,321	2,068,499	1,929,197	1,963,406	2,079,944	2,192,394	2,397,782	2,639,075	2,923,149
Geosciences, atmospheric sciences, and ocean sciences	2,991,741	3,153,174	3,173,011	3,195,423	3,227,963	3,247,430	3,083,754	3,147,841	3,159,520	3,185,923	3,281,251
Atmospheric science and meteorology	429,354	481,275	476,729	493,460	501,638	573,932	626,676	623,504	608,041	590,385	612,890
Geological and earth sciences	1,083,969	1,142,630	1,168,945	1,163,744	1,159,352	1,113,633	998,082	1,084,050	1,131,890	1,121,265	1,159,627
Ocean sciences and marine sciences	1,021,857	1,049,630	1,025,472	1,051,418	1,071,412	1,050,173	1,097,963	1,098,634	1,061,402	1,100,768	1,136,259
Geosciences, atmospheric sciences, and ocean sciences nec	456,561	479,639	501,865	486,801	495,561	509,692	361,033	341,653	358,187	373,505	372,475
Life sciences	34,984,249	37,337,522	37,200,171	37,565,222	37,959,430	38,773,872	40,869,476	43,099,189	45,611,147	48,256,664	49,640,508
Agricultural sciences	3,011,150	3,116,840	3,300,098	3,352,448	3,392,786	3,482,399	3,294,486	3,274,597	3,307,251	3,426,773	3,626,162
Biological and biomedical sciences	10,946,456	11,855,468	11,611,632	11,681,264	11,706,344	11,704,606	13,030,223	13,722,803	14,516,633	15,392,567	15,761,876
Health sciences	19,268,085	20,398,377	20,330,413	20,454,258	20,709,668	21,299,466	22,388,131	23,991,344	25,778,953	27,293,004	28,026,662
Natural resources and conservation[a]	na	na	na	na	na	na	693,318	691,653	779,526	841,877	900,697
Life sciences nec	1,758,558	1,966,837	1,958,028	2,077,252	2,150,632	2,287,401	1,463,318	1,418,792	1,228,784	1,302,443	1,325,111
Mathematics and statistics	592,200	640,471	674,461	670,801	657,887	640,891	679,494	700,275	750,374	769,993	798,975
Physical sciences	4,621,772	4,768,816	4,710,125	4,646,754	4,616,226	4,659,068	4,887,988	5,049,994	5,232,066	5,551,490	5,667,046
Astronomy and astrophysics	573,229	583,847	706,544	558,781	567,058	626,606	621,738	648,830	668,245	735,006	780,080
Chemistry	1,748,465	1,783,604	1,748,904	1,703,881	1,724,038	1,757,330	1,773,406	1,791,311	1,865,955	1,965,712	1,926,772
Materials science[a]	na	na	na	na	na	na	172,271	227,825	254,447	259,316	252,193
Physics	1,998,732	2,108,340	1,985,954	2,097,094	2,056,264	2,047,689	2,120,550	2,155,727	2,206,653	2,327,359	2,434,467
Physical sciences nec	301,346	293,025	268,723	286,998	268,866	227,443	200,023	226,301	236,766	264,097	273,534
Psychology	1,077,655	1,159,180	1,179,323	1,128,269	1,143,347	1,183,628	1,221,218	1,244,640	1,258,635	1,326,304	1,357,081
Social sciences	1,999,942	2,063,007	2,053,656	2,173,107	2,211,962	2,319,007	2,364,783	2,554,562	2,721,772	2,808,228	2,947,338
Anthropology[a]	na	na	na	na	na	na	95,932	110,928	118,230	124,402	119,329
Economics	352,890	387,036	383,405	408,153	428,369	456,410	398,366	433,961	455,861	459,822	562,192
Political science and government	374,903	370,694	390,074	427,522	426,675	459,274	383,994	412,112	438,078	448,438	425,267
Sociology, demography, and population studies	419,895	433,484	461,011	482,284	504,965	524,697	503,610	551,875	608,747	610,435	591,754
Social sciences nec	852,254	871,793	819,166	855,148	851,953	878,626	982,881	1,045,686	1,100,856	1,165,131	1,248,796
Sciences nec	1,156,223	1,090,771	1,101,802	1,172,383	1,044,050	1,078,108	1,074,768	946,414	889,815	915,312	952,459
Engineering	9,325,722	10,032,590	10,284,111	10,733,918	10,976,180	11,070,190	11,373,163	11,911,403	12,363,782	13,216,209	13,692,756
Aerospace, aeronautical, and astronautical engineering	635,234	667,757	662,444	689,553	662,456	734,173	883,100	990,723	1,010,502	1,170,169	1,295,759
Bioengineering and biomedical engineering	745,277	817,389	871,917	884,421	951,157	1,003,932	1,086,194	1,220,680	1,343,753	1,451,159	1,468,229
Chemical engineering	821,163	913,905	903,613	910,413	907,096	914,517	884,662	934,527	931,039	977,578	999,312
Civil engineering	1,106,759	1,208,592	1,232,944	1,296,972	1,256,888	1,287,306	1,329,959	1,302,314	1,354,775	1,433,224	1,422,418
Electrical, electronic, and communications engineering	2,050,292	2,206,894	2,311,665	2,408,824	2,479,789	2,492,434	2,512,529	2,726,627	2,843,975	2,938,343	3,048,420

TABLE 9

Higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Industrial and manufacturing engineering[a]	na	na	na	na	na	na	236,678	351,081	514,781	556,462	588,127
Mechanical engineering	1,458,382	1,556,892	1,550,151	1,647,643	1,504,293	1,514,673	1,435,885	1,535,910	1,630,637	1,705,716	1,812,916
Metallurgical and materials engineering	703,332	738,892	757,967	812,240	1,203,073	1,101,946	744,005	735,699	762,695	792,370	816,610
Engineering nec	1,805,283	1,922,269	1,993,410	2,083,852	2,011,428	2,021,209	2,260,151	2,113,842	1,971,625	2,191,188	2,240,965
Non-S&E	2,899,059	3,286,376	3,530,026	3,658,762	3,432,848	3,614,282	4,133,261	4,300,432	4,641,376	4,864,950	5,035,615
Business management and business administration	370,015	400,376	443,079	476,091	482,842	569,670	642,391	725,239	783,995	871,253	878,721
Communication and communications technologies	130,396	153,743	159,920	148,900	166,899	168,516	166,409	202,542	191,602	206,913	191,813
Education	993,588	1,120,766	1,233,437	1,221,444	1,245,104	1,292,703	1,340,240	1,384,314	1,503,631	1,526,519	1,603,978
Humanities	260,374	313,032	339,633	386,759	402,219	430,183	443,138	492,626	504,115	539,984	563,007
Law	98,109	124,779	131,514	173,479	149,242	174,695	184,339	223,825	266,378	255,797	267,565
Social work	177,331	194,667	199,046	212,331	226,075	214,211	211,549	235,299	245,117	285,850	307,145
Visual and performing arts	68,717	77,358	84,596	87,765	95,817	100,644	133,869	124,882	137,134	159,482	171,605
Non-S&E nec	800,529	901,655	938,801	951,993	664,650	663,660	1,011,326	911,705	1,009,404	1,019,152	1,051,781

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

[a] Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for information detailing where these fields were previously reported.

Note(s):
FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for specific details about discipline changes.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 10

Federally financed higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All R&D fields	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,788,615	40,248,797	41,863,137	44,482,526	46,143,829
Science	30,791,579	33,373,047	32,497,010	31,764,827	30,399,957	30,316,863	31,093,059	32,204,064	33,521,628	35,571,485	36,778,903
Computer and information sciences	1,175,343	1,294,280	1,360,430	1,552,301	1,390,715	1,419,694	1,443,376	1,497,681	1,630,119	1,794,620	2,000,937
Geosciences, atmospheric sciences, and ocean sciences	2,013,754	2,181,206	2,203,399	2,094,690	2,049,405	2,065,883	1,991,778	2,042,291	2,048,266	2,067,199	2,109,065
Atmospheric science and meteorology	338,687	383,740	389,095	397,620	389,374	453,710	513,280	503,368	485,737	460,463	471,158
Geological and earth sciences	735,094	799,906	818,785	767,770	740,500	698,976	604,474	685,630	697,934	676,550	696,991
Ocean sciences and marine sciences	666,930	705,852	673,888	662,219	663,079	647,119	665,139	656,802	649,212	698,401	713,086
Geosciences, atmospheric sciences, and ocean sciences nec	273,043	291,708	321,631	267,081	256,452	266,078	208,885	196,491	215,383	231,785	227,830
Life sciences	21,702,125	23,663,408	22,753,602	22,227,278	21,270,307	21,163,826	21,795,284	22,749,759	23,867,788	25,458,209	26,254,002
Agricultural sciences	957,710	1,042,740	1,137,729	1,111,006	1,085,147	1,096,997	977,258	978,308	950,634	989,763	1,072,057
Biological and biomedical sciences	7,579,196	8,213,534	7,741,440	7,604,786	7,238,421	7,103,267	7,699,352	8,179,596	8,572,870	9,263,466	9,339,917
Health sciences	12,068,659	13,184,595	12,681,515	12,287,408	11,742,527	11,723,297	12,101,391	12,688,424	13,395,870	14,194,037	14,733,751
Natural resources and conservation[a]	na	na	na	na	na	na	316,604	271,470	320,412	369,968	410,120
Life sciences nec	1,096,560	1,222,539	1,192,918	1,224,078	1,204,212	1,240,265	700,679	631,961	628,002	640,975	698,157
Mathematics and statistics	417,775	458,966	490,534	464,608	441,394	424,534	444,392	437,059	456,806	467,039	486,259
Physical sciences	3,384,275	3,527,330	3,474,586	3,311,037	3,155,471	3,111,644	3,288,095	3,384,673	3,472,447	3,691,358	3,789,237
Astronomy and astrophysics	405,954	408,963	535,180	400,440	380,887	403,037	417,930	441,536	454,491	514,424	542,725
Chemistry	1,200,120	1,243,767	1,213,495	1,134,945	1,080,342	1,095,107	1,097,435	1,097,830	1,129,872	1,182,460	1,166,743
Materials science[a]	na	na	na	na	na	na	111,806	142,472	162,048	165,880	156,894
Physics	1,557,421	1,660,377	1,532,612	1,567,937	1,509,951	1,463,126	1,525,643	1,549,492	1,570,749	1,657,797	1,736,916
Physical sciences nec	220,780	214,223	193,299	207,715	184,291	150,374	135,281	153,343	155,287	170,797	185,959
Psychology	758,520	835,448	859,500	776,402	752,525	763,657	765,247	764,737	759,524	789,562	808,565
Social sciences	901,009	947,176	915,874	897,604	917,699	921,781	899,559	932,660	937,772	938,491	969,278
Anthropology[a]	na	na	na	na	na	na	39,602	38,715	43,464	43,003	38,847
Economics	127,858	148,737	144,446	137,236	138,812	149,572	112,576	110,746	102,152	91,722	121,461
Political science and government	152,547	148,643	141,267	143,375	145,664	136,486	103,691	103,875	98,306	86,710	78,462
Sociology, demography, and population studies	226,462	232,834	247,739	237,479	251,803	262,252	268,827	280,578	285,166	289,763	253,213
Social sciences nec	394,142	416,962	382,422	379,514	381,420	373,471	374,863	398,746	408,684	427,293	477,295
Sciences nec	438,778	465,233	439,085	440,907	422,441	445,844	465,328	395,204	348,906	365,007	361,560
Engineering	5,718,852	6,275,548	6,442,986	6,499,507	6,424,314	6,458,748	6,583,093	6,828,853	7,093,806	7,668,349	8,120,891
Aerospace, aeronautical, and astronautical engineering	466,991	504,536	501,722	513,134	474,623	516,051	623,637	659,882	678,126	820,576	957,795
Bioengineering and biomedical engineering	470,432	515,611	552,555	556,651	606,943	606,696	651,534	725,241	791,996	879,999	906,145
Chemical engineering	421,269	490,918	504,753	478,542	471,561	462,829	467,519	471,749	461,480	498,223	521,758
Civil engineering	460,880	544,992	570,303	578,390	577,964	570,426	591,837	557,671	590,886	621,055	606,519
Electrical, electronic, and communications engineering	1,373,311	1,511,458	1,601,917	1,642,771	1,742,336	1,771,589	1,742,704	1,891,480	1,981,349	2,049,544	2,143,397

TABLE 10

Federally financed higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Industrial and manufacturing engineering[a]	na	na	na	na	na	na	147,192	186,352	306,768	366,712	384,795
Mechanical engineering	953,244	1,032,641	1,035,551	1,061,270	946,802	957,354	861,039	937,915	993,314	1,055,742	1,160,117
Metallurgical and materials engineering	429,412	455,722	462,246	465,657	494,405	501,195	442,377	440,746	464,475	483,774	504,528
Engineering nec	1,143,313	1,219,670	1,213,939	1,203,092	1,109,680	1,072,608	1,055,254	957,817	825,412	892,724	935,837
Non-S&E	967,151	1,119,656	1,202,227	1,181,597	1,136,847	1,071,191	1,112,463	1,215,880	1,247,703	1,242,692	1,244,035
Business management and business administration	86,440	99,661	96,659	95,227	77,253	69,815	68,284	69,069	71,628	73,039	74,126
Communication and communications technologies	41,339	53,266	53,337	51,060	54,335	42,462	36,764	61,313	34,260	35,638	40,830
Education	535,744	632,117	689,060	666,586	663,558	644,110	624,470	653,098	680,429	668,106	667,043
Humanities	57,510	61,420	67,692	76,804	75,114	59,963	57,171	59,051	50,006	49,813	54,155
Law	19,338	27,388	24,575	22,522	23,732	24,415	26,081	33,022	50,934	31,867	26,697
Social work	94,422	105,661	109,359	111,693	109,179	101,665	95,300	110,683	114,298	133,076	140,836
Visual and performing arts	4,843	6,521	10,435	7,039	9,050	8,603	8,585	8,334	10,798	9,105	15,140
Non-S&E nec	127,515	133,622	151,110	150,666	124,626	120,158	195,808	221,310	235,350	242,048	225,208

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

[a] Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for information detailing where these fields were previously reported.

Note(s):
FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for specific details about discipline changes.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 11

Nonfederally financed higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All R&D fields	23,809,028	24,506,142	25,586,784	27,567,207	29,237,972	30,703,080	32,979,234	34,898,347	37,163,132	39,051,622	40,152,349
Science	18,270,250	18,582,380	19,417,860	20,855,631	22,390,105	23,548,547	25,168,366	26,731,245	28,499,483	29,881,504	30,788,904
Computer and information sciences	462,704	448,206	461,891	516,198	538,482	543,712	636,568	694,713	767,663	844,455	922,212
Geosciences, atmospheric sciences, and ocean sciences	977,987	971,968	969,612	1,100,733	1,178,558	1,181,547	1,091,976	1,105,550	1,111,254	1,118,724	1,172,186
Atmospheric science and meteorology	90,667	97,535	87,634	95,840	112,264	120,222	113,396	120,136	122,304	129,922	141,732
Geological and earth sciences	348,875	342,724	350,160	395,974	418,852	414,657	393,608	398,420	433,956	444,715	462,636
Ocean sciences and marine sciences	354,927	343,778	351,584	389,199	408,333	403,054	432,824	441,832	412,190	402,367	423,173
Geosciences, atmospheric sciences, and ocean sciences nec	183,518	187,931	180,234	219,720	239,109	243,614	152,148	145,162	142,804	141,720	144,645
Life sciences	13,282,124	13,674,114	14,446,569	15,337,944	16,689,123	17,610,046	19,074,192	20,349,430	21,743,359	22,798,455	23,386,506
Agricultural sciences	2,053,440	2,074,100	2,162,369	2,241,442	2,307,639	2,385,402	2,317,228	2,296,289	2,356,617	2,437,010	2,554,105
Biological and biomedical sciences	3,367,260	3,641,934	3,870,192	4,076,478	4,467,923	4,601,339	5,330,871	5,543,207	5,943,763	6,129,101	6,421,959
Health sciences	7,199,426	7,213,782	7,648,898	8,166,850	8,967,141	9,576,169	10,286,740	11,302,920	12,383,083	13,098,967	13,292,911
Natural resources and conservation[a]	na	na	na	na	na	na	376,714	420,183	459,114	471,909	490,577
Life sciences nec	661,998	744,298	765,110	853,174	946,420	1,047,136	762,639	786,831	600,782	661,468	626,954
Mathematics and statistics	174,425	181,505	183,927	206,193	216,493	216,357	235,102	263,216	293,568	302,954	312,716
Physical sciences	1,237,497	1,241,486	1,235,539	1,335,717	1,460,755	1,547,424	1,599,893	1,665,321	1,759,619	1,860,132	1,877,809
Astronomy and astrophysics	167,275	174,884	171,364	158,341	186,171	223,569	203,808	207,294	213,754	220,582	237,355
Chemistry	548,345	539,837	535,409	568,936	643,696	662,223	675,971	693,481	736,083	783,252	760,029
Materials science[a]	na	na	na	na	na	na	60,465	85,353	92,399	93,436	95,299
Physics	441,311	447,963	453,342	529,157	546,313	584,563	594,907	606,235	635,904	669,562	697,551
Physical sciences nec	80,566	78,802	75,424	79,283	84,575	77,069	64,742	72,958	81,479	93,300	87,575
Psychology	319,135	323,732	319,823	351,867	390,822	419,971	455,971	479,903	499,111	536,742	548,516
Social sciences	1,098,933	1,115,831	1,137,782	1,275,503	1,294,263	1,397,226	1,465,224	1,621,902	1,784,000	1,869,737	1,978,060
Anthropology[a]	na	na	na	na	na	na	56,330	72,213	74,766	81,399	80,482
Economics	225,032	238,299	238,959	270,917	289,557	306,838	285,790	323,215	353,709	368,100	440,731
Political science and government	222,356	222,051	248,807	284,147	281,011	322,788	280,303	308,237	339,772	361,728	346,805
Sociology, demography, and population studies	193,433	200,650	213,272	244,805	253,162	262,445	234,783	271,297	323,581	320,672	338,541
Social sciences nec	458,112	454,831	436,744	475,634	470,533	505,155	608,018	646,940	692,172	737,838	771,501
Sciences nec	717,445	625,538	662,717	731,476	621,609	632,264	609,440	551,210	540,909	550,305	590,899
Engineering	3,606,870	3,757,042	3,841,125	4,234,411	4,551,866	4,611,442	4,790,070	5,082,550	5,269,976	5,547,860	5,571,865
Aerospace, aeronautical, and astronautical engineering	168,243	163,221	160,722	176,419	187,833	218,122	259,463	330,841	332,376	349,593	337,964
Bioengineering and biomedical engineering	274,845	301,778	319,362	327,770	344,214	397,236	434,660	495,439	551,757	571,160	562,084
Chemical engineering	399,894	422,987	398,860	431,871	435,535	451,688	417,143	462,778	469,559	479,355	477,554
Civil engineering	645,879	663,600	662,641	718,582	678,924	716,880	738,122	744,643	763,889	812,169	815,899
Electrical, electronic, and communications engineering	676,981	695,436	709,748	766,053	737,453	720,845	769,825	835,147	862,626	888,799	905,023

TABLE 11

Nonfederally financed higher education R&D expenditures, by R&D field: FYs 2010–20

(Dollars in thousands)

Field	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Industrial and manufacturing engineering[a]	na	na	na	na	na	na	89,486	164,729	208,013	189,750	203,332
Mechanical engineering	505,138	524,251	514,600	586,373	557,491	557,319	574,846	597,995	637,323	649,974	652,799
Metallurgical and materials engineering	273,920	283,170	295,721	346,583	708,668	600,751	301,628	294,953	298,220	308,596	312,082
Engineering nec	661,970	702,599	779,471	880,760	901,748	948,601	1,204,897	1,156,025	1,146,213	1,298,464	1,305,128
Non-S&E	1,931,908	2,166,720	2,327,799	2,477,165	2,296,001	2,543,091	3,020,798	3,084,552	3,393,673	3,622,258	3,791,580
Business management and business administration	283,575	300,715	346,420	380,864	405,589	499,855	574,107	656,170	712,367	798,214	804,595
Communication and communications technologies	89,057	100,477	106,583	97,840	112,564	126,054	129,645	141,229	157,342	171,275	150,983
Education	457,844	488,649	544,377	554,858	581,546	648,593	715,770	731,216	823,202	858,413	936,935
Humanities	202,864	251,612	271,941	309,955	327,105	370,220	385,967	433,575	454,109	490,171	508,852
Law	78,771	97,391	106,939	150,957	125,510	150,280	158,258	190,803	215,444	223,930	240,868
Social work	82,909	89,006	89,687	100,638	116,896	112,546	116,249	124,616	130,819	152,774	166,309
Visual and performing arts	63,874	70,837	74,161	80,726	86,767	92,041	125,284	116,548	126,336	150,377	156,465
Non-S&E nec	673,014	768,033	787,691	801,327	540,024	543,502	815,518	690,395	774,054	777,104	826,573

na = not applicable; separate data for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected prior to FY 2016.

nec = not elsewhere classified; S&E = science and engineering.

[a] Prior to FY 2016, expenditures for natural resources and conservation, materials science, anthropology, and industrial and manufacturing engineering were not collected separately. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for information detailing where these fields were previously reported.

Note(s):
FY 2016 R&D expenditure amounts in various fields may show increases or decreases from amounts reported in FY 2015 because of the reclassification of disciplines. See the FY 2016 Technical Notes, Appendix A (https://ncsesdata.nsf.gov/herd/2016) for specific details about discipline changes.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 12

Higher education R&D expenditures, by source of funds and R&D field: FY 2020

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All R&D fields	86,296,178	46,143,829	4,596,633	21,946,790	5,184,925	5,745,238	2,678,763
Science	67,567,807	36,778,903	3,366,120	16,620,734	3,910,498	4,824,295	2,067,257
Computer and information sciences	2,923,149	2,000,937	59,461	578,481	156,246	81,578	46,446
Geosciences, atmospheric sciences, and ocean sciences	3,281,251	2,109,065	192,307	658,966	84,585	149,331	86,997
Atmospheric science and meteorology	612,890	471,158	20,739	92,002	6,616	10,302	12,073
Geological and earth sciences	1,159,627	696,991	56,003	276,947	42,549	53,207	33,930
Ocean sciences and marine sciences	1,136,259	713,086	89,392	214,593	25,140	62,473	31,575
Geosciences, atmospheric sciences, and ocean sciences nec	372,475	227,830	26,173	75,424	10,280	23,349	9,419
Life sciences	49,640,508	26,254,002	2,699,498	11,954,881	3,388,718	3,725,032	1,618,377
Agricultural sciences	3,626,162	1,072,057	950,453	1,160,242	145,810	153,008	144,592
Biological and biomedical sciences	15,761,876	9,339,917	558,750	3,686,204	703,545	1,108,185	365,275
Health sciences	28,026,662	14,733,751	987,527	6,452,035	2,470,203	2,336,032	1,047,114
Natural resources and conservation	900,697	410,120	140,342	255,659	24,851	46,367	23,358
Life sciences nec	1,325,111	698,157	62,426	400,741	44,309	81,440	38,038
Mathematics and statistics	798,975	486,259	26,640	223,162	13,335	39,436	10,143
Physical sciences	5,667,046	3,789,237	94,312	1,257,087	170,038	241,118	115,254
Astronomy and astrophysics	780,080	542,725	7,009	144,050	3,872	52,890	29,534
Chemistry	1,926,772	1,166,743	38,428	523,173	81,497	78,408	38,523
Materials science	252,193	156,894	3,233	57,559	22,558	8,275	3,674
Physics	2,434,467	1,736,916	34,396	481,101	44,965	97,849	39,240
Physical sciences nec	273,534	185,959	11,246	51,204	17,146	3,696	4,283
Psychology	1,357,081	808,565	47,653	374,133	15,469	87,853	23,408
Social sciences	2,947,338	969,278	175,297	1,163,690	49,205	451,233	138,635
Anthropology	119,329	38,847	3,855	64,794	1,954	5,480	4,399
Economics	562,192	121,461	48,994	223,229	14,023	111,551	42,934
Political science and government	425,267	78,462	13,079	202,670	7,156	86,889	37,011
Sociology, demography, and population studies	591,754	253,213	34,578	198,676	6,143	86,921	12,223
Social sciences nec	1,248,796	477,295	74,791	474,321	19,929	160,392	42,068
Sciences nec	952,459	361,560	70,952	410,334	32,902	48,714	27,997
Engineering	13,692,756	8,120,891	895,910	2,720,559	1,129,319	393,387	432,690
Aerospace, aeronautical, and astronautical engineering	1,295,759	957,795	33,259	130,543	129,465	4,683	40,014
Bioengineering and biomedical engineering	1,468,229	906,145	48,150	331,075	60,248	86,474	36,137
Chemical engineering	999,312	521,758	44,926	240,663	116,581	48,181	27,203
Civil engineering	1,422,418	606,519	255,959	377,850	98,399	46,087	37,604
Electrical, electronic, and communications engineering	3,048,420	2,143,397	79,138	482,858	187,270	74,512	81,245
Industrial and manufacturing engineering	588,127	384,795	35,472	113,635	36,419	12,205	5,601

TABLE 12

Higher education R&D expenditures, by source of funds and R&D field: FY 2020

(Dollars in thousands)

Field	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Mechanical engineering	1,812,916	1,160,117	66,529	333,847	179,189	36,603	36,631
Metallurgical and materials engineering	816,610	504,528	29,785	161,984	64,388	19,043	36,882
Engineering nec	2,240,965	935,837	302,692	548,104	257,360	65,599	131,373
Non-S&E	5,035,615	1,244,035	334,603	2,605,497	145,108	527,556	178,816
Business management and business administration	878,721	74,126	41,108	640,841	26,819	45,597	50,230
Communication and communications technologies	191,813	40,830	10,816	98,931	6,602	29,566	5,068
Education	1,603,978	667,043	131,575	520,173	53,327	201,358	30,502
Humanities	563,007	54,155	17,922	385,675	13,756	67,083	24,416
Law	267,565	26,697	12,404	158,838	7,486	44,759	17,381
Social work	307,145	140,836	29,722	93,047	5,203	35,774	2,563
Visual and performing arts	171,605	15,140	6,626	129,234	2,747	10,584	7,274
Non-S&E nec	1,051,781	225,208	84,430	578,758	29,168	92,835	41,382

nec = not elsewhere classified; S&E = science and engineering.

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see table 82.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 13

Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2020

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
All R&D fields	46,143,829	7,080,598	2,037,915	25,397,976	1,758,375	5,414,611	1,244,633	3,209,721
Science	36,778,903	3,498,772	1,162,091	24,178,402	1,240,545	3,753,051	1,131,680	1,814,362
Computer and information sciences	2,000,937	942,322	48,280	126,088	18,865	746,405	6,186	112,791
Geosciences, atmospheric sciences, and ocean sciences	2,109,065	248,527	92,962	51,293	438,075	665,890	32,505	579,813
Atmospheric science and meteorology	471,158	55,455	20,986	2,048	148,271	80,696	1,567	162,135
Geological and earth sciences	696,991	40,074	58,667	5,407	222,067	231,574	18,676	120,526
Ocean sciences and marine sciences	713,086	139,961	6,731	7,623	44,068	309,197	2,665	202,841
Geosciences, atmospheric sciences, and ocean sciences nec	227,830	13,037	6,578	36,215	23,669	44,423	9,597	94,311
Life sciences	26,254,002	1,332,269	234,655	22,249,750	93,502	716,140	1,022,353	605,333
Agricultural sciences	1,072,057	20,692	40,477	139,918	5,776	76,048	691,183	97,963
Biological and biomedical sciences	9,339,917	394,172	132,678	7,948,302	33,105	501,548	172,972	157,140
Health sciences	14,733,751	816,468	17,158	13,540,664	45,156	61,821	38,031	214,453
Natural resources and conservation	410,120	85,043	37,198	20,785	8,440	52,741	100,145	105,768
Life sciences nec	698,157	15,894	7,144	600,081	1,025	23,982	20,022	30,009
Mathematics and statistics	486,259	139,892	9,124	65,383	3,004	225,661	6,034	37,161
Physical sciences	3,789,237	636,550	753,512	599,475	636,982	1,069,626	3,737	89,355
Astronomy and astrophysics	542,725	15,842	13,783	1,590	397,617	109,402	17	4,474
Chemistry	1,166,743	134,989	151,890	511,568	18,030	329,356	2,377	18,533
Materials science	156,894	61,472	24,813	7,744	3,762	50,143	155	8,805
Physics	1,736,916	381,911	533,889	62,000	185,140	526,027	904	47,045
Physical sciences nec	185,959	42,336	29,137	16,573	32,433	54,698	284	10,498
Psychology	808,565	49,265	1,148	578,882	20,927	81,117	6,330	70,896
Social sciences	969,278	81,961	5,930	404,318	23,654	150,122	46,934	256,359
Anthropology	38,847	4,197	914	6,388	56	16,416	2,559	8,317
Economics	121,461	3,211	1,448	28,466	32	25,090	30,835	32,379
Political science and government	78,462	14,078	1,390	16,579	2,826	18,319	1,005	24,265
Sociology, demography, and population studies	253,213	22,171	29	133,713	345	32,519	5,220	59,216
Social sciences nec	477,295	38,304	2,149	219,172	20,395	57,778	7,315	132,182
Sciences nec	361,560	67,986	16,480	103,213	5,536	98,090	7,601	62,654
Engineering	8,120,891	3,524,858	869,885	936,241	510,515	1,362,626	74,101	842,665
Aerospace, aeronautical, and astronautical engineering	957,795	616,586	24,891	4,492	186,586	38,584	477	86,179
Bioengineering and biomedical engineering	906,145	158,736	18,258	582,665	8,809	90,978	18,288	28,411
Chemical engineering	521,758	93,188	142,913	80,932	8,921	144,497	7,622	43,685
Civil engineering	606,519	68,539	78,222	27,321	15,197	148,763	10,368	258,109
Electrical, electronic, and communications engineering	2,143,397	1,258,392	161,982	81,429	119,467	398,138	4,098	119,891
Industrial and manufacturing engineering	384,795	232,322	24,230	10,051	20,998	42,808	1,580	52,806
Mechanical engineering	1,160,117	573,744	151,385	65,710	84,575	200,183	3,473	81,047
Metallurgical and materials engineering	504,528	209,610	114,375	24,568	13,195	101,793	1,316	39,671
Engineering nec	935,837	313,741	153,629	59,073	52,767	196,882	26,879	132,866
Non-S&E	1,244,035	56,968	5,939	283,333	7,315	298,934	38,852	552,694

TABLE 13

Federally financed higher education R&D expenditures, by federal agency and R&D field: FY 2020

(Dollars in thousands)

Field	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Business management and business administration	74,126	9,711	1,440	6,212	168	16,337	1,106	39,152
Communication and communications technologies	40,830	5,457	601	14,954	669	10,725	485	7,939
Education	667,043	10,760	1,126	79,342	5,699	211,930	5,154	353,032
Humanities	54,155	5,926	512	9,754	226	10,696	333	26,708
Law	26,697	585	37	6,912	1	831	283	18,048
Social work	140,836	2,751	0	125,238	0	602	716	11,529
Visual and performing arts	15,140	899	126	3,909	34	2,414	75	7,683
Non-S&E nec	225,208	20,879	2,097	37,012	518	45,399	30,700	88,603

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering; USDA = Department of Agriculture.

[a] Includes all other agencies reported.

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see table 83.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 14

Higher education R&D expenditures from foreign sources, by highest degree granted and institutional control: FYs 2010–20 and by source of foreign funds for FYs 2016–20

(Dollars in thousands)

Source of foreign funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions											
All foreign funds	642,858	719,255	797,787	977,773	1,003,612	1,065,483	1,184,134	1,220,161	1,253,513	1,272,165	1,304,607
Foreign government	na	na	na	na	na	na	164,585	172,575	249,842	272,645	296,658
Business	na	na	na	na	na	na	492,310	517,623	549,382	580,228	625,962
Nonprofit organizations	na	na	na	na	na	na	303,583	318,018	273,361	274,070	252,230
Higher education institutions	na	na	na	na	na	na	114,640	111,777	115,367	108,664	106,741
All other sources	na	na	na	na	na	na	109,016	100,168	65,561	36,558	23,016
Doctorate											
All foreign funds	640,490	715,437	795,057	973,733	999,173	1,060,088	1,170,461	1,215,605	1,247,004	1,267,603	1,298,826
Foreign government	na	na	na	na	na	na	162,784	172,185	249,291	272,215	296,434
Business	na	na	na	na	na	na	482,806	515,163	546,059	578,533	623,477
Nonprofit organizations	na	na	na	na	na	na	302,930	317,464	272,699	273,166	250,391
Higher education institutions	na	na	na	na	na	na	114,155	111,436	114,510	107,698	106,016
All other sources	na	na	na	na	na	na	107,786	99,357	64,445	35,991	22,508
Nondoctorate											
All foreign funds	2,368	3,818	2,730	4,040	4,439	5,395	13,673	4,556	6,509	4,562	5,781
Foreign government	na	na	na	na	na	na	1,801	390	551	430	224
Business	na	na	na	na	na	na	9,504	2,460	3,323	1,695	2,485
Nonprofit organizations	na	na	na	na	na	na	653	554	662	904	1,839
Higher education institutions	na	na	na	na	na	na	485	341	857	966	725
All other sources	na	na	na	na	na	na	1,230	811	1,116	567	508
Public											
All foreign funds	381,519	418,115	437,190	491,874	518,834	528,480	546,212	565,651	593,808	597,246	622,543
Foreign government	na	na	na	na	na	na	57,274	51,549	117,452	89,818	78,440
Business	na	na	na	na	na	na	264,175	262,449	277,039	308,757	352,664
Nonprofit organizations	na	na	na	na	na	na	154,891	175,990	120,856	121,634	114,737
Higher education institutions	na	na	na	na	na	na	50,552	56,051	59,807	59,994	63,665
All other sources	na	na	na	na	na	na	19,320	19,612	18,654	17,043	13,037
Private											
All foreign funds	261,339	301,140	360,597	485,899	484,778	537,003	637,922	654,510	659,705	674,919	682,064
Foreign government	na	na	na	na	na	na	107,311	121,026	132,390	182,827	218,218
Business	na	na	na	na	na	na	228,135	255,174	272,343	271,471	273,298
Nonprofit organizations	na	na	na	na	na	na	148,692	142,028	152,505	152,436	137,493
Higher education institutions	na	na	na	na	na	na	64,088	55,726	55,560	48,670	43,076

TABLE 14

Higher education R&D expenditures from foreign sources, by highest degree granted and institutional control: FYs 2010–20 and by source of foreign funds for FYs 2016–20

(Dollars in thousands)

Source of foreign funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All other sources	na	na	na	na	na	na	89,696	80,556	46,907	19,515	9,979

na = not applicable; separate data for source of foreign funds were not collected for these years.

Note(s):
Prior to FY 2016, only total R&D expenditures from foreign sources was collected. Beginning in FY 2016, institutions were asked for the source of foreign funding.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 15

Externally funded higher education R&D expenditures, by highest degree granted, institutional control, and type of agreement: FYs 2010–20

(Dollars in thousands)

Type of agreement, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions											
All externally funded R&D	49,344,078	52,694,073	52,141,609	52,076,758	51,463,714	51,957,808	53,863,644	56,297,588	58,847,220	62,440,582	64,349,388
Contracts	10,830,892	11,058,454	11,415,327	11,590,645	11,603,926	12,081,223	12,234,270	12,901,520	13,489,429	14,585,871	15,485,184
Grants, reimbursements, and all other agreements	38,513,186	41,635,619	40,726,282	40,486,113	39,859,788	39,876,585	41,629,374	43,396,068	45,357,791	47,854,711	48,864,204
Doctorate											
All externally funded R&D	48,504,214	51,725,752	51,314,264	51,439,912	50,881,747	51,452,527	53,025,240	55,771,402	58,348,696	61,934,732	63,846,117
Contracts	10,667,147	10,875,191	11,271,111	11,494,039	11,513,041	12,015,276	12,064,405	12,844,924	13,432,299	14,512,689	15,406,542
Grants, reimbursements, and all other agreements	37,837,067	40,850,561	40,043,153	39,945,873	39,368,706	39,437,251	40,960,835	42,926,478	44,916,397	47,422,043	48,439,575
Nondoctorate											
All externally funded R&D	839,864	968,321	827,345	636,846	581,967	505,281	838,404	526,186	498,524	505,850	503,271
Contracts	163,745	183,263	144,216	96,606	90,885	65,947	169,865	56,596	57,130	73,182	78,642
Grants, reimbursements, and all other agreements	676,119	785,058	683,129	540,240	491,082	439,334	668,539	469,590	441,394	432,668	424,629
Public											
All externally funded R&D	31,934,135	34,048,019	33,752,723	33,705,035	33,067,468	33,292,859	34,453,166	35,918,293	37,546,888	39,665,927	41,053,831
Contracts	7,153,099	7,274,860	7,507,054	7,835,919	7,697,339	7,963,158	7,936,739	8,363,678	8,876,306	9,551,775	10,149,823
Grants, reimbursements, and all other agreements	24,781,036	26,773,159	26,245,669	25,869,116	25,370,129	25,329,701	26,516,427	27,554,615	28,670,582	30,114,152	30,904,008
Private											
All externally funded R&D	17,409,943	18,646,054	18,388,886	18,371,723	18,396,246	18,664,949	19,410,478	20,379,295	21,300,332	22,774,655	23,295,557
Contracts	3,677,793	3,783,594	3,908,273	3,754,726	3,906,587	4,118,065	4,297,531	4,537,842	4,613,123	5,034,096	5,335,361
Grants, reimbursements, and all other agreements	13,732,150	14,862,460	14,480,613	14,616,997	14,489,659	14,546,884	15,112,947	15,841,453	16,687,209	17,740,559	17,960,196

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 16

Higher education R&D expenditures, by highest degree granted, institutional control, and type of cost: FYs 2010–20

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions											
All R&D	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,144	79,026,269	83,534,148	86,296,178
Direct costs	46,159,649	49,311,567	49,897,854	51,089,463	51,564,673	52,612,168	55,281,411	57,935,304	60,777,579	64,388,205	66,514,804
Salaries, wages, and fringe benefits	25,929,799	27,860,610	28,339,070	28,802,181	29,118,462	29,894,812	31,455,447	33,229,973	34,678,293	36,598,736	38,703,867
Software	105,970	116,422	103,456	107,685	96,522	117,011	113,524	109,635	121,867	136,568	158,145
Noncapitalized software	88,456	98,438	93,250	95,652	84,279	93,207	95,136	98,610	110,804	121,014	144,023
Capitalized software	17,514	17,984	10,206	12,033	12,243	23,804	18,388	11,025	11,063	15,554	14,122
Capitalized equipment	2,148,421	2,256,025	2,040,534	2,254,429	2,036,393	2,119,860	2,169,465	2,193,911	2,148,659	2,440,045	2,588,624
Passed through to subrecipients	4,956,929	5,436,850	5,531,421	5,689,087	5,702,916	5,633,830	5,697,047	5,915,408	6,315,524	6,716,738	7,053,612
Other direct costs	13,018,530	13,641,660	13,883,373	14,236,081	14,610,380	14,846,655	15,845,928	16,486,377	17,513,236	18,496,118	18,010,556
Indirect costs	15,126,961	15,962,826	15,831,153	15,923,675	15,634,417	15,937,714	16,486,438	17,211,840	18,248,690	19,145,943	19,781,374
Recovered	10,465,893	11,352,339	11,221,624	11,220,177	10,873,879	11,101,007	11,452,294	12,021,637	12,746,295	13,611,514	14,038,278
Unrecovered	4,661,068	4,610,487	4,609,529	4,703,498	4,760,538	4,836,707	5,034,144	5,190,203	5,502,395	5,534,429	5,743,096
Doctorate											
All R&D	60,266,691	64,064,133	64,700,201	66,217,717	66,447,854	67,890,206	70,718,154	74,440,312	78,357,182	82,849,208	85,607,541
Direct costs	45,266,156	48,282,499	49,022,847	50,398,617	50,915,499	52,041,028	54,363,455	57,313,046	60,195,881	63,796,585	65,922,218
Salaries, wages, and fringe benefits	25,494,721	27,357,645	27,906,910	28,462,160	28,785,382	29,604,060	31,105,634	32,911,906	34,366,799	36,289,351	38,392,902
Software	98,119	110,285	95,627	102,523	91,341	111,645	108,637	107,211	119,973	134,828	155,774
Noncapitalized software	80,940	92,808	86,115	90,658	79,637	88,079	90,540	96,567	109,051	119,428	141,979
Capitalized software	17,179	17,477	9,512	11,865	11,704	23,566	18,097	10,644	10,922	15,400	13,795
Capitalized equipment	2,086,956	2,192,296	1,995,345	2,219,549	2,011,006	2,095,638	2,039,262	2,166,650	2,124,751	2,418,507	2,565,531
Passed through to subrecipients	4,901,412	5,371,178	5,469,627	5,647,933	5,663,439	5,609,210	5,659,469	5,884,082	6,286,022	6,688,592	7,025,460
Other direct costs	12,684,948	13,251,095	13,555,338	13,966,452	14,364,331	14,620,475	15,450,453	16,243,197	17,298,336	18,265,307	17,782,551
Indirect costs	15,000,535	15,781,634	15,677,354	15,819,100	15,532,355	15,849,178	16,354,699	17,127,266	18,161,301	19,052,623	19,685,323
Recovered	10,382,463	11,236,113	11,125,166	11,147,825	10,808,902	11,041,072	11,383,623	11,965,812	12,686,665	13,550,676	13,975,782
Unrecovered	4,618,072	4,545,521	4,552,188	4,671,275	4,723,453	4,808,106	4,971,076	5,161,454	5,474,636	5,501,947	5,709,541
Nondoctorate											
All R&D	1,019,919	1,210,260	1,028,806	795,421	751,236	659,676	1,049,695	706,832	669,087	684,940	688,637
Direct costs	893,493	1,029,068	875,007	690,846	649,174	571,140	917,956	622,258	581,698	591,620	592,586
Salaries, wages, and fringe benefits	435,078	502,965	432,160	340,021	333,080	290,752	349,813	318,067	311,494	309,385	310,965
Software	7,851	6,137	7,829	5,162	5,181	5,366	4,887	2,424	1,894	1,740	2,371
Noncapitalized software	7,516	5,630	7,135	4,994	4,642	5,128	4,596	2,043	1,753	1,586	2,044
Capitalized software	335	507	694	168	539	238	291	381	141	154	327
Capitalized equipment	61,465	63,729	45,189	34,880	25,387	24,222	130,203	27,261	23,908	21,538	23,093
Passed through to subrecipients	55,517	65,672	61,794	41,154	39,477	24,620	37,578	31,326	29,502	28,146	28,152
Other direct costs	333,582	390,565	328,035	269,629	246,049	226,180	395,475	243,180	214,900	230,811	228,005

TABLE 16

Higher education R&D expenditures, by highest degree granted, institutional control, and type of cost: FYs 2010–20

(Dollars in thousands)

Type of cost, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Indirect costs	126,426	181,192	153,799	104,575	102,062	88,536	131,739	84,574	87,389	93,320	96,051
Recovered	83,430	116,226	96,458	72,352	64,977	59,935	68,671	55,825	59,630	60,838	62,496
Unrecovered	42,996	64,966	57,341	32,223	37,085	28,601	63,068	28,749	27,759	32,482	33,555
Public											
All R&D	41,266,626	43,915,960	44,162,595	44,849,697	44,678,272	45,412,330	47,107,025	49,257,693	51,891,065	54,676,833	56,663,756
Direct costs	31,705,979	33,922,562	34,339,324	35,005,995	35,020,267	35,641,244	36,969,260	38,696,285	40,643,885	42,903,776	44,494,080
Salaries, wages, and fringe benefits	18,317,189	19,636,095	19,949,722	20,231,506	20,439,977	20,800,559	21,747,650	22,901,344	23,752,500	25,086,682	26,472,556
Software	82,340	96,499	83,509	85,149	74,464	92,881	89,420	81,626	94,272	103,482	120,556
Noncapitalized software	69,454	80,693	74,897	76,518	65,044	74,448	74,083	73,839	85,062	92,402	111,598
Capitalized software	12,886	15,806	8,612	8,631	9,420	18,433	15,337	7,787	9,210	11,080	8,958
Capitalized equipment	1,457,694	1,555,049	1,476,328	1,655,640	1,468,645	1,508,981	1,578,490	1,554,168	1,522,182	1,744,741	1,924,396
Passed through to subrecipients	3,065,688	3,418,705	3,502,384	3,608,137	3,558,954	3,541,678	3,520,318	3,662,415	3,917,082	4,149,970	4,388,534
Other direct costs	8,783,068	9,216,214	9,327,381	9,425,563	9,478,227	9,697,145	10,033,382	10,496,732	11,357,849	11,818,901	11,588,038
Indirect costs	9,560,647	9,993,398	9,823,271	9,843,702	9,658,005	9,771,086	10,137,765	10,561,408	11,247,180	11,773,057	12,169,676
Recovered	6,175,654	6,585,483	6,554,816	6,539,581	6,339,721	6,409,899	6,622,242	6,946,587	7,365,388	7,916,771	8,108,186
Unrecovered	3,384,993	3,407,915	3,268,455	3,304,121	3,318,284	3,361,187	3,515,523	3,614,821	3,881,792	3,856,286	4,061,490
Private											
All R&D	20,019,984	21,358,433	21,566,412	22,163,441	22,520,818	23,137,552	24,660,824	25,889,451	27,135,204	28,857,315	29,632,422
Direct costs	14,453,670	15,389,005	15,558,530	16,083,468	16,544,406	16,970,924	18,312,151	19,239,019	20,133,694	21,484,429	22,020,724
Salaries, wages, and fringe benefits	7,612,610	8,224,515	8,389,348	8,570,675	8,678,485	9,094,253	9,707,797	10,328,629	10,925,793	11,512,054	12,231,311
Software	23,630	19,923	19,947	22,536	22,058	24,130	24,104	28,009	27,595	33,086	37,589
Noncapitalized software	19,002	17,745	18,353	19,134	19,235	18,759	21,053	24,771	25,742	28,612	32,425
Capitalized software	4,628	2,178	1,594	3,402	2,823	5,371	3,051	3,238	1,853	4,474	5,164
Capitalized equipment	690,727	700,976	564,206	598,789	567,748	610,879	590,975	639,743	626,477	695,304	664,228
Passed through to subrecipients	1,891,241	2,018,145	2,029,037	2,080,950	2,143,962	2,092,152	2,176,729	2,252,993	2,398,442	2,566,768	2,665,078
Other direct costs	4,235,462	4,425,446	4,555,992	4,810,518	5,132,153	5,149,510	5,812,546	5,989,645	6,155,387	6,677,217	6,422,518
Indirect costs	5,566,314	5,969,428	6,007,882	6,079,973	5,976,412	6,166,628	6,348,673	6,650,432	7,001,510	7,372,886	7,611,698
Recovered	4,290,239	4,766,856	4,666,808	4,680,596	4,534,158	4,691,108	4,830,052	5,075,050	5,380,907	5,694,743	5,930,092
Unrecovered	1,276,075	1,202,572	1,341,074	1,399,377	1,442,254	1,475,520	1,518,621	1,575,382	1,620,603	1,678,143	1,681,606

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 17

Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2020

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
All R&D fields	2,588,624	1,924,396	664,228	1,201,365	845,175	356,190	1,387,259	1,079,221	308,038
Science	1,787,045	1,291,954	495,091	860,070	594,457	265,613	926,975	697,497	229,478
Computer and information sciences	164,385	130,036	34,349	113,808	97,665	16,143	50,577	32,371	18,206
Geosciences, atmospheric sciences, and ocean sciences	136,963	122,177	14,786	91,416	83,984	7,432	45,547	38,193	7,354
Atmospheric science and meteorology	20,841	18,570	2,271	16,572	15,039	1,533	4,269	3,531	738
Geological and earth sciences	52,636	43,841	8,795	29,953	25,350	4,603	22,683	18,491	4,192
Ocean sciences and marine sciences	57,836	55,485	2,351	42,700	41,945	755	15,136	13,540	1,596
Geosciences, atmospheric sciences, and ocean sciences nec	5,650	4,281	1,369	2,191	1,650	541	3,459	2,631	828
Life sciences	990,630	717,282	273,348	373,658	236,157	137,501	616,972	481,125	135,847
Agricultural sciences	98,162	96,328	1,834	24,075	23,160	915	74,087	73,168	919
Biological and biomedical sciences	455,430	289,571	165,859	193,815	107,171	86,644	261,615	182,400	79,215
Health sciences	382,382	288,594	93,788	135,695	91,415	44,280	246,687	197,179	49,508
Natural resources and conservation	11,673	10,686	987	4,225	4,140	85	7,448	6,546	902
Life sciences nec	42,983	32,103	10,880	15,848	10,271	5,577	27,135	21,832	5,303
Mathematics and statistics	7,907	3,559	4,348	4,158	2,641	1,517	3,749	918	2,831
Physical sciences	409,342	257,972	151,370	256,469	158,831	97,638	152,873	99,141	53,732
Astronomy and astrophysics	35,304	22,769	12,535	18,802	11,614	7,188	16,502	11,155	5,347
Chemistry	136,354	99,008	37,346	75,360	53,674	21,686	60,994	45,334	15,660
Materials science	19,654	12,232	7,422	11,453	7,807	3,646	8,201	4,425	3,776
Physics	184,112	111,722	72,390	125,708	76,271	49,437	58,404	35,451	22,953
Physical sciences nec	33,918	12,241	21,677	25,146	9,465	15,681	8,772	2,776	5,996
Psychology	22,078	15,368	6,710	8,666	6,139	2,527	13,412	9,229	4,183
Social sciences	14,414	11,448	2,966	2,767	2,531	236	11,647	8,917	2,730
Anthropology	2,843	2,010	833	145	116	29	2,698	1,894	804
Economics	2,422	1,659	763	167	135	32	2,255	1,524	731
Political science and government	886	682	204	140	70	70	746	612	134
Sociology, demography, and population studies	2,108	1,488	620	906	844	62	1,202	644	558
Social sciences nec	6,155	5,609	546	1,409	1,366	43	4,746	4,243	503
Sciences nec	41,326	34,112	7,214	9,128	6,509	2,619	32,198	27,603	4,595
Engineering	741,873	578,237	163,636	335,816	245,892	89,924	406,057	332,345	73,712
Aerospace, aeronautical, and astronautical engineering	62,078	49,333	12,745	37,169	30,461	6,708	24,909	18,872	6,037
Bioengineering and biomedical engineering	56,178	35,949	20,229	26,692	13,542	13,150	29,486	22,407	7,079
Chemical engineering	53,400	41,779	11,621	23,898	17,108	6,790	29,502	24,671	4,831
Civil engineering	39,656	33,962	5,694	17,784	15,861	1,923	21,872	18,101	3,771
Electrical, electronic, and communications engineering	138,659	97,305	41,354	88,821	69,725	19,096	49,838	27,580	22,258
Industrial and manufacturing engineering	22,505	14,754	7,751	15,311	11,769	3,542	7,194	2,985	4,209
Mechanical engineering	95,127	70,335	24,792	52,675	39,207	13,468	42,452	31,128	11,324
Metallurgical and materials engineering	58,883	38,066	20,817	35,461	17,660	17,801	23,422	20,406	3,016
Engineering nec	215,387	196,754	18,633	38,005	30,559	7,446	177,382	166,195	11,187
Non-S&E	59,706	54,205	5,501	5,479	4,826	653	54,227	49,379	4,848
Business management and business administration	4,885	3,713	1,172	165	149	16	4,720	3,564	1,156
Communication and communications technologies	1,208	1,075	133	106	106	0	1,102	969	133
Education	8,660	7,712	948	937	884	53	7,723	6,828	895

TABLE 17

Higher education R&D expenditures for equipment, by R&D field, source of funds, and institutional control: FY 2020

(Dollars in thousands)

Field	All expenditures			Federal			Nonfederal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
Humanities	4,108	3,020	1,088	310	152	158	3,798	2,868	930
Law	667	526	141	106	1	105	561	525	36
Social work	1,177	1,111	66	103	42	61	1,074	1,069	5
Visual and performing arts	1,768	1,501	267	320	304	16	1,448	1,197	251
Non-S&E nec	37,233	35,547	1,686	3,432	3,188	244	33,801	32,359	1,442

nec = not elsewhere classified; S&E = science and engineering.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 18

Total R&D expenditures within medical schools, by institutional control: FYs 2010–20

(Dollars in thousands)

Number, medical school status, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions											
Number of institutions with medical schools	141	144	145	146	150	152	157	155	156	159	160
All R&D	40,380,697	42,941,206	43,056,379	44,826,210	46,138,811	47,372,130	49,998,145	52,568,534	55,518,140	60,575,121	62,542,523
Medical school R&D	21,437,682	23,215,960	22,885,999	22,716,092	22,867,301	23,550,033	24,764,109	26,282,480	27,849,126	29,927,222	30,804,565
Doctorate											
Number of institutions with medical schools	131	130	135	137	140	142	144	144	147	152	154
All R&D	40,333,614	42,835,538	42,957,410	44,780,213	46,085,337	47,326,040	49,910,718	52,496,944	55,461,557	60,524,382	62,493,256
Medical school R&D	21,419,712	23,174,106	22,844,442	22,695,488	22,847,813	23,531,182	24,714,792	26,245,661	27,818,938	29,900,070	30,777,939
Nondoctorate											
Number of institutions with medical schools	10	14	10	9	10	10	13	11	9	7	6
All R&D	47,083	105,668	98,969	45,997	53,474	46,090	87,427	71,590	56,583	50,739	49,267
Medical school R&D	17,970	41,854	41,557	20,604	19,488	18,851	49,317	36,819	30,188	27,152	26,626
Public											
Number of institutions with medical schools	83	84	85	86	89	91	94	94	94	99	100
All R&D	24,313,348	25,927,387	25,938,222	27,210,089	28,237,378	28,969,948	30,292,064	31,838,522	33,691,595	37,359,453	38,662,180
Medical school R&D	11,684,912	12,678,932	12,375,216	12,419,947	12,416,501	12,785,042	13,172,552	13,964,235	15,001,469	16,178,180	16,750,471
Private											
Number of institutions with medical schools	58	60	60	60	61	61	63	61	62	60	60
All R&D	16,067,349	17,013,819	17,118,157	17,616,121	17,901,433	18,402,182	19,706,081	20,730,012	21,826,545	23,215,668	23,880,343
Medical school R&D	9,752,770	10,537,028	10,510,783	10,296,145	10,450,800	10,764,991	11,591,557	12,318,245	12,847,657	13,749,042	14,054,094

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 19

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–20

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions											
Number of institutions with clinical trials R&D	173	178	166	169	176	178	174	181	180	190	188
All R&D	43,587,067	46,154,058	46,182,393	47,521,867	48,823,411	50,518,176	52,974,681	56,092,244	60,209,082	64,940,633	67,014,405
All clinical trials R&D	1,533,053	1,587,503	1,667,554	1,756,031	1,998,453	2,138,547	2,367,976	2,621,635	2,938,633	3,091,243	3,320,934
Federal R&D	27,502,023	29,715,665	28,976,410	28,839,622	28,242,451	28,219,390	29,059,366	30,420,421	32,032,218	34,836,936	36,181,288
Federal clinical trials R&D	539,834	637,812	665,163	747,442	793,733	840,757	867,041	920,753	1,031,876	1,183,607	1,310,818
Nonfederal R&D	16,085,044	16,438,393	17,205,983	18,682,245	20,580,960	22,298,786	23,915,315	25,671,823	28,176,864	30,103,697	30,833,117
Nonfederal clinical trials R&D	993,219	949,691	1,002,391	1,008,589	1,204,720	1,297,790	1,500,935	1,700,882	1,906,757	1,907,636	2,010,116
Doctorate											
Number of institutions with clinical trials R&D	147	150	150	154	159	163	159	167	168	177	178
All R&D	43,531,732	46,058,907	46,080,033	47,464,317	48,764,898	50,456,805	52,898,447	56,018,930	60,151,970	64,864,524	66,944,565
All clinical trials R&D	1,525,982	1,577,952	1,659,319	1,748,068	1,989,065	2,132,071	2,361,367	2,616,509	2,934,654	3,087,243	3,316,058
Federal R&D	27,465,906	29,664,114	28,918,557	28,803,492	28,214,054	28,191,478	29,029,502	30,392,429	32,006,281	34,804,487	36,155,946
Federal clinical trials R&D	535,066	631,248	658,212	740,173	785,860	835,589	862,211	916,381	1,028,638	1,180,524	1,307,375
Nonfederal R&D	16,065,826	16,394,793	17,161,476	18,660,825	20,550,844	22,265,327	23,868,945	25,626,501	28,145,689	30,060,037	30,788,619
Nonfederal clinical trials R&D	990,916	946,704	1,001,107	1,007,895	1,203,205	1,296,482	1,499,156	1,700,128	1,906,016	1,906,719	2,008,683
Nondoctorate											
Number of institutions with clinical trials R&D	26	28	16	15	17	15	15	14	12	13	10
All R&D	55,335	95,151	102,360	57,550	58,513	61,371	76,234	73,314	57,112	76,109	69,840
All clinical trials R&D	7,071	9,551	8,235	7,963	9,388	6,476	6,609	5,126	3,979	4,000	4,876
Federal R&D	36,117	51,551	57,853	36,130	28,397	27,912	29,864	27,992	25,937	32,449	25,342
Federal clinical trials R&D	4,768	6,564	6,951	7,269	7,873	5,168	4,830	4,372	3,238	3,083	3,443
Nonfederal R&D	19,218	43,600	44,507	21,420	30,116	33,459	46,370	45,322	31,175	43,660	44,498
Nonfederal clinical trials R&D	2,303	2,987	1,284	694	1,515	1,308	1,779	754	741	917	1,433
Public											
Number of institutions with clinical trials R&D	100	101	96	100	106	111	107	111	114	124	124
All R&D	27,143,937	29,081,518	28,993,617	29,832,528	30,727,888	31,975,939	33,203,172	34,968,934	37,922,227	41,069,526	42,543,456
All clinical trials R&D	578,615	599,545	633,542	709,889	754,804	802,818	948,240	1,070,820	1,210,863	1,292,386	1,417,760
Federal R&D	15,921,337	17,253,156	16,779,967	16,830,718	16,417,539	16,462,490	17,021,809	17,749,111	18,811,258	20,604,047	21,461,470
Federal clinical trials R&D	162,213	204,202	223,816	244,240	235,778	246,200	263,574	265,194	304,928	388,288	441,685
Nonfederal R&D	11,222,600	11,828,362	12,213,650	13,001,810	14,310,349	15,513,449	16,181,363	17,219,823	19,110,969	20,465,479	21,081,986
Nonfederal clinical trials R&D	416,402	395,343	409,726	465,649	519,026	556,618	684,666	805,626	905,935	904,098	976,075
Private											
Number of institutions with clinical trials R&D	73	77	70	69	70	67	67	70	66	66	64
All R&D	16,443,130	17,072,540	17,188,776	17,689,339	18,095,523	18,542,237	19,771,509	21,123,310	22,286,855	23,871,107	24,470,949
All clinical trials R&D	954,438	987,958	1,034,012	1,046,142	1,243,649	1,335,729	1,419,736	1,550,815	1,727,770	1,798,857	1,903,174

TABLE 19

Higher education R&D expenditures for clinical trials, by source of funds, highest degree granted, and institutional control: FYs 2010–20

(Dollars in thousands)

Number, source of funds, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Federal R&D	11,580,686	12,462,509	12,196,443	12,008,904	11,824,912	11,756,900	12,037,557	12,671,310	13,220,960	14,232,889	14,719,818
Federal clinical trials R&D	377,621	433,610	441,347	503,202	557,955	594,557	603,467	655,559	726,948	795,319	869,133
Nonfederal R&D	4,862,444	4,610,031	4,992,333	5,680,435	6,270,611	6,785,337	7,733,952	8,452,000	9,065,895	9,638,218	9,751,131
Nonfederal clinical trials R&D	576,817	554,348	592,665	542,940	685,694	741,172	816,269	895,256	1,000,822	1,003,538	1,034,041

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions	-	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,144	79,026,269	83,534,148	86,296,178
Johns Hopkins U.[a]	1	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494
U. Michigan, Ann Arbor	2	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862
U. California, San Francisco	3	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073
U. Pennsylvania	4	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364
U. Washington, Seattle	5	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902
U. California, San Diego	6	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735
U. California, Los Angeles	7	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941
U. Wisconsin-Madison	8	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931
Harvard U.	9	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983
Stanford U.	10	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950
Duke U.	11	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638
Cornell U.	12	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063
U. North Carolina, Chapel Hill	13	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725
Texas A&M U., College Station and Health Science Center	14	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803
U. Pittsburgh, Pittsburgh	15	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532
U. Maryland[b]	16	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062
Yale U.	17	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135
U. Texas M. D. Anderson Cancer Center	18	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297
Georgia Institute of Technology	19	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988
U. Minnesota, Twin Cities	20	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382
Columbia U. in the City of New York	21	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909
Pennsylvania State U., University Park and Hershey Medical Center	22	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923
Massachusetts Institute of Technology	23	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968
Ohio State U.	24	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260
New York U.	25	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293
U. Florida	26	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223
U. Southern California	27	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198
Washington U., Saint Louis	28	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215
Northwestern U.	29	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671
U. California, Berkeley	30	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000
Vanderbilt U. and Vanderbilt U. Medical Center	31	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803
U. California, Davis	32	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693
Emory U.	33	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas, Austin	34	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199
U. Arizona	35	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975
Icahn School of Medicine at Mount Sinai	36	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014
Indiana U., Bloomington	37	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	728,554
Michigan State U.	38	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197
U. Illinois, Urbana-Champaign	39	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176
Rutgers, State U. New Jersey, New Brunswick	40	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077
Purdue U., West Lafayette	41	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144
Baylor C. of Medicine	42	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641
Arizona State U.	43	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357
U. Virginia, Charlottesville	44	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002
U. Alabama, Birmingham	45	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226
U. Utah	46	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061
U. Texas Southwestern Medical Center	47	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939
Boston U.	48	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267
Virginia Polytechnic Institute and State U.	49	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341
U. Colorado Denver and Anschutz Medical Campus	50	389,461	417,587	431,977	409,443	411,020	410,081	443,705	480,598	525,531	542,732	554,643
North Carolina State U.	51	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290
U. Iowa	52	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583
U. Cincinnati	53	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138
U. Colorado Boulder	54	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674
U. California, Irvine	55	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597
U. Georgia	56	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786
U. Chicago	57	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891
California Institute of Technology	58	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651
Oregon Health and Science U.	59	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890
Scripps Research Institute	60	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964
Case Western Reserve U.	61	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778
SUNY, U. Buffalo	62	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038
U. Kentucky	63	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674
U. Illinois, Chicago	64	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147
Colorado State U., Fort Collins	65	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302
U. Rochester	66	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211
Princeton U.	67	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502
Carnegie Mellon U.	68	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996
U. Miami	69	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Kansas	70	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811
Iowa State U.	71	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107
U. Oklahoma, Norman and Health Science Center	72	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209
Rockefeller U.	73	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217
SUNY, Polytechnic Institute	74	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651
Florida State U.	75	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430
Washington State U.	76	304,352	320,510	335,930	341,082	326,414	333,134	334,082	331,051	331,424	344,997	335,201
U. South Florida, Tampa	77	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344
U. Missouri, Columbia	78	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180
Dartmouth C. and Dartmouth Hitchcock Medical Center	79	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	342,142	326,349
Uniformed Services U. of the Health Sciences	80	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510
U. Nebraska, Lincoln	81	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820	320,463
U. Tennessee, Knoxville[c]	82	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407
Utah State U.	83	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256
Temple U.	84	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707
Albert Einstein C. of Medicine	85	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654
Louisiana State U., Baton Rouge	86	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733
Virginia Commonwealth U.	87	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874
Mississippi State U.	88	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485
U. Connecticut	89	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131
U. Massachusetts, Medical School	90	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096
U. Hawaii, Manoa	91	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929
U. Texas Health Science Center, Houston	92	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862
Medical U. South Carolina	93	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590
George Washington U.	94	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369
Oregon State U.	95	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385
Brown U.	96	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127
Medical C. Wisconsin	97	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325
SUNY, Stony Brook U.	98	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470
Georgetown U.	99	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659
Auburn U., Auburn	100	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281
U. California, Santa Barbara	101	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434
Wake Forest U.	102	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643
U. New Mexico	103	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375
Wayne State U.	104	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central Florida	105	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	239,343
Florida International U.	106	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842
Clemson U.	107	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597
Woods Hole Oceanographic Institution	108	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573
U. Notre Dame	109	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535
George Mason U.	110	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	221,006
U. Delaware	111	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445
U. South Carolina, Columbia	112	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464
U. Massachusetts, Amherst	113	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389
Tufts U.	114	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241
Kansas State U.	115	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900
Tulane U.	116	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430
U. Texas Health Science Center, San Antonio	117	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572
Georgia State U.	118	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451
U. Nebraska, Medical Center	119	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406
U. Houston	120	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428
Northeastern U.	121	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068
Texas Tech U.	122	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643
U. Louisville	123	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818
Rice U.	124	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681
U. Vermont	125	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147
West Virginia U.	126	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452
Oklahoma State U., Stillwater	127	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060
U. California, Riverside	128	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894
U. Texas Medical Branch	129	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595
U. Arkansas for Medical Sciences	130	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549
Thomas Jefferson U.	131	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377
Montana State U., Bozeman	132	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285
U. Arkansas, Fayetteville	133	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887
U. Louisiana, Lafayette	134	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070
U. Dayton	135	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718
U. Nevada, Reno	136	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790
U. New Hampshire	137	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901
New Jersey Institute of Technology	138	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	155,715
North Dakota State U.	139	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645
Wichita State U.	140	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Alaska, Fairbanks	141	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299
U. California, Santa Cruz	142	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400
Syracuse U.	143	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652
Drexel U.	144	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123
U. Texas, San Antonio	145	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586
SUNY, U. Albany	146	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088
U. Texas, Arlington	147	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793
U. Texas, Dallas	148	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192
U. Maine	149	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	132,184
U. Alabama, Huntsville	150	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648
U. Mississippi	151	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960
SUNY, Binghamton U.	152	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870
Cold Spring Harbor Laboratory	153	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198
U. Oregon	154	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259
U. Idaho	155	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810
U. North Dakota	156	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663
U. Montana, Missoula	157	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218
U. Rhode Island	158	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967
U. Texas, El Paso	159	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628
Rensselaer Polytechnic Institute	160	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	107,623
New Mexico State U.	161	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275
U. Nevada, Las Vegas	162	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872
Augusta U.	163	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961
U. Tennessee, Health Science Center	164	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716
San Diego State U.	165	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710
U. Alabama, Tuscaloosa	166	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200
Rush U.	167	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438
U. Wyoming	168	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061
U. Massachusetts, Lowell	169	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216
U. North Texas, Denton	170	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239
U. Maryland, Baltimore County	171	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867
Colorado School of Mines	172	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517
Cleveland State U.	173	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189
Michigan Technological U.	174	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927
U. Southern Mississippi	175	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322
American U.	176	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Indiana U.-Purdue U., Indianapolis	177	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	71,387
Texas State U.	178	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714
Saint Louis U.	179	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528
U. Memphis	180	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463
William & Mary	181	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763
Old Dominion U.	182	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704
Northern Arizona U.	183	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456
U. Massachusetts, Boston	184	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219
Brandeis U.	185	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	63,201
Boston C.	186	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063
Naval Postgraduate School	187	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903
U. Wisconsin-Milwaukee	188	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069
South Dakota State U.	189	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939
U. California, Office of the President	190	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686
Van Andel Research Institute	191	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982
East Carolina U.	192	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820
Rochester Institute of Technology	193	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777
U. Texas Rio Grande Valley	194	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702
U. Maryland Center for Environmental Science	195	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560
U. Toledo	196	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100
Florida Atlantic U.	197	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845
Ohio U.	198	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914
U. South Alabama	199	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102
Kent State U.	200	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307
U. North Carolina, Charlotte	201	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050
Wright State U.	202	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825
Mercer U.	203	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116
U. North Texas, Health Science Center	204	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	47,392
San Jose State U.	205	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301
Missouri U. of Science and Technology	206	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001
U. California, Merced	207	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966
CUNY, City C.	208	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632
Howard U.	209	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933
Stevens Institute of Technology	210	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747
Texas Tech U., Health Sciences Center	211	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135
Portland State U.	212	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Louisiana State U., Health Sciences Center, New Orleans	213	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419
Boise State U.	214	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307
Worcester Polytechnic Institute	215	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092
Southern Methodist U.	216	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081
U.S. Air Force Academy	217	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197
Southern Illinois U., Carbondale	218	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617
SUNY, Upstate Medical U.	219	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557
U. Denver	220	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349
Florida A&M U.	221	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319
U. West Florida	222	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	41,977	40,051
Baylor U.	223	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765
Loyola U., Chicago	224	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365
Brigham Young U., Provo	225	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569
CUNY, Hunter C.	226	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345
Lehigh U.	227	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064
U. Puerto Rico, Medical Sciences Campus	228	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217
Marquette U.	229	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136
U. Missouri, Kansas City	230	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356
North Carolina Agricultural and Technical State U.	231	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151
Air Force Institute of Technology	232	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584
SUNY, Downstate Medical Center	233	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204
San Francisco State U.	234	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,078 i
Texas A&M U.-Corpus Christi	235	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284
Illinois State U.	236	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	32,260
Morehouse School of Medicine	237	30,669 i	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813
SUNY, C. of Environmental Science and Forestry	238	26,916	25,024 i	23,132 i	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296
U. South Dakota	239	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279
Illinois Institute of Technology	240	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122
U. North Carolina, Greensboro	241	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966
Rutgers, State U. New Jersey, Newark	242	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006
U. Massachusetts, Dartmouth	243	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836
Chapman U.	244	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660
California Polytechnic State U., San Luis Obispo	245	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605
Louisiana Tech U.	246	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585
U. Puerto Rico, Mayaguez	247	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Desert Research Institute	248	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428
U. Minnesota, Duluth	249	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137
Nova Southeastern U.	250	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035
Rowan U.	251	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018
Villanova U.	252	10,066 i	10,044	8,547 i	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505
Northern Illinois U.	253	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420
Louisiana State U., Health Sciences Center, Shreveport	254	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321
Catholic U. of America	255	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221
Loma Linda U.	256	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	22,922 i	24,408 i	25,077 i
California State U., Sacramento	257	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939
New Mexico Institute of Mining and Technology	258	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591
Western Michigan U. and Homer Stryker M.D. School of Medicine	259	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541
Miami U.	260	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489
Delaware State U.	261	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,876 i
U. Nebraska, central administration	262	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860	23,672
Albany Medical C.	263	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510
U. Akron	264	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496
U. Puerto Rico, Rio Piedras	265	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895
Texas A&M U.-Kingsville	266	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745
U. Alaska, Anchorage	267	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713
Teachers C., Columbia U.	268	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630
Marshall U.	269	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250
U. Texas Health Science Center, Tyler	270	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949 i	19,606 i	21,265
California State U., Northridge	271	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228
Tuskegee U.	272	15,581	15,685	15,991	21,150	24,945	20,740 i	16,535	16,535	16,535	20,562	20,973
Eastern Virginia Medical School	273	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870
Fordham U.	274	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456
Creighton U.	275	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339
New York Medical C.	276	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137
U. Tulsa	277	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787
Bowling Green State U.	278	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729
Prairie View A&M U.	279	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723
Southern Illinois U., Edwardsville	280	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273
Florida Institute of Technology	281	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. South Florida, Saint Petersburg	282	4,425	3,978	5,488	6,905	6,908	7,292	7,116	8,661	8,478	11,686	18,243
Kennesaw State U.	283	1,854	1,961	3,511 i	5,062	2,192	4,762	8,279	9,510	11,214	30,381	17,954
Embry-Riddle Aeronautical U.	284	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786
Montclair State U.	285	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636
Duquesne U.	286	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485
Central Michigan U.	287	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448
Morgan State U.	288	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193
California State U., Long Beach	289	15,494	14,595 i	13,696 i	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684
U. New Orleans	290	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594
U. North Carolina, Wilmington	291	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544
CUNY, Queens C.	292	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470
U. Nebraska, Omaha	293	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134
North Carolina Central U.	294	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833
Northeast Ohio Medical U.	295	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758
Tennessee State U.	296	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	15,377
U. Missouri, Saint Louis	297	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352
Texas Christian U.	298	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326
Clarkson U.	299	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104
Jackson State U.	300	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081
U. Baltimore	301	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054
Tarleton State U.	302	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890
Rosalind Franklin U. of Medicine and Science	303	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601
South Dakota School of Mines and Technology	304	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490
Idaho State U.	305	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478
Langston U.	306	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025 i	10,872 i	10,719	14,409
Humboldt State U.	307	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236
Tennessee Technological U.	308	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085
Long Island U.	309	832 i	877 i	890 i	915	ne	ne	1,420	2,290	2,405	5,113	13,997
CUNY, John Jay C. of Criminal Justice	310	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939
East Tennessee State U.	311	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925
Meharry Medical C.	312	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870
Alcorn State U.	313	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710
Charles R. Drew U. of Medicine and Science	314	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682
U. of the Virgin Islands	315	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631
U. North Florida	316	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573
U. Hawaii, system office	317	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Ponce Health Sciences U.	318	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566
California State U., San Marcos	319	5,788	6,795 i	7,802 i	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250
New School	320	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186
Missouri State U.	321	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131
U.S. Naval Academy	322	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123
U. Guam	323	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043
Montana Technological U.	324	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987
Oakland U.	325	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949
Western Washington U.	326	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823
U.S. Military Academy	327	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473
Sam Houston State U.	328	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437
CUNY, Graduate School of Public Health and Health Policy	329	na	na	na	na	na	na	na	na	9,751	9,521	12,177
Georgia Southern U.	330	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166
Bryn Mawr C.	331	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575
Hampton U.	332	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402
Xavier U. Louisiana	333	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387
CUNY, Advanced Science Research Center	334	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373
U. Tennessee, Chattanooga	335	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834
California State U., San Bernardino	336	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819
California State U., Los Angeles	337	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590
Midwestern U.	338	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479
Texas Tech U., Health Sciences Center, El Paso	339	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421
Clark U.	340	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277
James Madison U.	341	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247
Rhode Island C.	342	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094
Virginia State U.	343	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014
U. Arkansas, Little Rock	344	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711
St. Edward's U.	345	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619
William Paterson U.	346	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603
Salisbury U.	347	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496
Ball State U.	348	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429
Claremont Graduate U.	349	7,116	6,589	10,350	9,705	9,540 i	9,375 i	9,210 i	9,045 i	8,880 i	8,715	9,403
Eastern Michigan U.	350	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088
California State U., East Bay	351	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072
California State U., Fresno	352	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Michigan, Dearborn	353	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777
Alabama A&M U.	354	30,497	30,238 i	29,979 i	29,720 i	29,461 i	29,202	25,112 i	21,022 i	16,932 i	12,840	8,749
Middle Tennessee State U.	355	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697
Arkansas State U., Jonesboro	356	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640
U. San Diego	357	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607
U. Arkansas, Pine Bluff	358	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540
Clark Atlanta U.	359	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452
Oklahoma State U., Center for Health Sciences	360	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408	8,378
Wesleyan U.	361	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958	8,300
Western Kentucky U.	362	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241
U. Maryland, Eastern Shore	363	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092
Wellesley C.	364	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088
Kentucky State U.	365	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151 i	9,125	8,433	7,963
U. Oklahoma, Tulsa	366	ne	ne	ne	ne	ne	4,104	4,962	4,487	6,233	6,373	7,483
Edward Via C. of Osteopathic Medicine	367	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475
California State Polytechnic U., Pomona	368	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396
Loyola Marymount U.	369	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193
Norfolk State U.	370	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153
U. Washington, Bothell	371	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107
CUNY, Brooklyn C.	372	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074
Azusa Pacific U.	373	ne	3,620	2,056 i	ne	ne	7,521	8,898	8,430	8,380	5,598	7,068
California State U., Bakersfield	374	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053
U. Hawaii, Hilo	375	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992
U. New England	376	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886
Grand Valley State U.	377	5,044	6,429 i	7,814 i	9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792
Florida Gulf Coast U.	378	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671
DePaul U.	379	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557
Indiana U. Pennsylvania	380	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531
West Chester U. Pennsylvania	381	5,584 i	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414
West Texas A&M U.	382	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220
Central State U.	383	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766	6,107
Naval War C.	384	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	4,240 i	5,270	5,060	5,944
California State U., Fullerton	385	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929
Western U. of Health Sciences	386	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899
Toyota Technological Institute, Chicago	387	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887
California State U., Monterey Bay	388	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Claremont McKenna C.	389	5,725	5,316	5,365 i	5,414 i	5,463 i	ne	6,094	5,818	5,693	6,214	5,846
Pacific U.	390	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842
Purdue U., Northwest	391	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839
Grinnell C.	392	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826
U. Central Oklahoma	393	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682	5,788 i
Winston-Salem State U.	394	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	5,781
Lincoln U., Jefferson City	395	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777
West Virginia State U.	396	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775
C. Charleston	397	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728
Seton Hall U.	398	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718
U. Southern Maine	399	16,358	16,938	13,915	11,725	9,408 i	7,091 i	4,773	7,147	7,414	6,654	5,635
U. Colorado Colorado Springs	400	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557
Southern Connecticut State U.	401	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627	5,413
Bucknell U.	402	5,456	5,043	4,009	4,297	4,464	4,140	4,516 i	4,892 i	5,269	5,625	5,339 i
U. Massachusetts, central office	403	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916	5,225
Reed C.	404	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155
Des Moines U.	405	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021
Williams C.	406	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924 i
Fort Valley State U.	407	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921
Amherst C.	408	3,628	4,623	5,448 i	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906
Appalachian State U.	409	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894
U. of Health Sciences and Pharmacy in St. Louis	410	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835
Morehouse C.	411	7,857	8,485 i	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825
U. North Carolina, Asheville	412	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602	4,789
CUNY, Graduate Center	413	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399	4,787
U. Detroit Mercy	414	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786
Texas Southern U.	415	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	4,782
U. Wisconsin-Stevens Point	416	6,766	6,171 i	5,576	4,392	3,919 i	3,446 i	2,973	3,420 i	3,867 i	4,314 i	4,764
Smith C.	417	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685
Gallaudet U.	418	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599
U. of the District of Columbia	419	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800	4,590
National Defense U.	420	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583
Southern U. and A&M C., Agricultural Research and Extension Center	421	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000 i	5,296	5,448	4,475
Haverford C.	422	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473
Dakota State U.	423	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Roseman U. of Health Sciences	424	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176 i	4,380
Lamar U.	425	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327
California State U., Chico	426	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305
Pace U.	427	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272
Oregon Institute of Technology	428	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793	4,267
Stockton U.	429	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236
Texas A&M U.-Commerce	430	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166
CUNY, Lehman C.	431	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154
Texas Woman's U.	432	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135
Youngstown State U.	433	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447	4,120
Rutgers, State U. New Jersey, Camden	434	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950
U. North Carolina, general administration	435	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154	3,942
U. Central del Caribe	436	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931
Fisk U.	437	7,700	4,849	4,058	6,565 i	9,073	9,854 i	10,635	5,017	2,790	4,748	3,904
Southern U. and A&M C., Baton Rouge	438	6,865	6,819 i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849
U. New Haven	439	ne	2,009	2,723	1,400	1,616 i	1,832	3,822	5,005	5,585	5,062	3,843
Hope C.	440	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822
South Carolina State U.	441	7,167	10,037 i	12,909	12,809 i	12,709 i	12,607	13,076 i	14,300	15,130 i	3,659	3,796 i
Albany C. of Pharmacy and Health Sciences	442	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765
U. of the Sciences Philadelphia	443	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761
Barnard C.	444	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748
U. Northern Colorado	445	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	446	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737
Carleton C.	447	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732
CUNY, C. Staten Island	448	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986	3,682
Stephen F. Austin State U.	449	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672
Franklin and Marshall C.	450	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623
Towson U.	451	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612
New York Institute of Technology	452	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580
Touro U.	453	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551
MGH Institute of Health Professions	454	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549
Swarthmore C.	455	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544
U. Washington, Tacoma	456	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504
SUNY, C. of Optometry	457	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477
Trinity U.	458	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central Arkansas	459	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455
U. Illinois, Springfield	460	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406
Philadelphia C. of Osteopathic Medicine	461	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360
Lewis and Clark C.	462	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350
High Tech High Graduate School of Ed.	463	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304
St. John's U., New York	464	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282
California State U., Maritime Academy	465	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202
Milwaukee School of Engineering	466	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190
Saint Joseph's U.	467	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150
Colorado State U., Pueblo	468	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104
Texas A&M International U.	469	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067
St. Cloud State U.	470	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056
Murray State U.	471	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019
U. Northern Iowa	472	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970
Harvey Mudd C.	473	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916
Colgate U.	474	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913
Pomona C.	475	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855
Austin Peay State U.	476	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833
Fayetteville State U.	477	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797
U. Wisconsin-La Crosse	478	4,141	3,862 i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795
Alfred U.	479	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780
Yeshiva U.	480	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763
Minnesota State U., Mankato	481	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754
Spelman C.	482	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750
Bowdoin C.	483	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719
Northwest Indian C.	484	2,426	2,744 i	2,847	3,247	2,609	1,631 i	ne	ne	2,154	2,659	2,708 i
Western Carolina U.	485	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696
Northern Kentucky U.	486	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693
Santa Clara U.	487	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682
U. of St. Thomas (MN)	488	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679
Central Washington U.	489	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674
Occidental C.	490	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657
U. Nebraska, Kearney	491	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640
Christopher Newport U.	492	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608
U. South Carolina, Aiken	493	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590
Alabama State U.	494	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Dillard U.	495	8,425	7,936 i	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523
Johnson C. Smith U.	496	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472
U. Richmond	497	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469
Western Illinois U.	498	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461
Grambling State U.	499	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427
Skidmore C.	500	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412
CUNY, Baruch C.	501	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396
U. Louisiana, Monroe	502	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362
Babson C.	503	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352
Saginaw Valley State U.	504	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343
Framingham State U.	505	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317
Bates C.	506	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303
U. Wisconsin-Superior	507	5,890	6,187 i	6,041 i	ne	3,030 i	ne	ne	ne	3,068	2,250	2,301
U. Houston-Downtown	508	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299
Colorado C.	509	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233	2,291
Eastern Washington U.	510	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282
Purdue U., Fort Wayne	511	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264
Davidson C.	512	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263
Southeastern Louisiana U.	513	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258
SUNY, Buffalo State	514	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253
Winthrop U.	515	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217
Kean U.	516	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201
Pittsburg State U.	517	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173
U. San Francisco	518	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161
Keck Graduate Institute	519	ne	2,313	1,920	2,357	2,132	1,722	1,814 i	1,875 i	1,967 i	2,095 i	2,152 i
U. South Florida, Sarasota-Manatee	520	732	914	ne	ne	1,026	1,595	1,827	1,883	1,934	1,872	2,150
CUNY, New York City C. of Technology	521	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130
Hobart and William Smith Colleges	522	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114
Suffolk U.	523	ne	1,624	1,303	1,551	1,534	1,305	1,492 i	1,679 i	ne	ne	2,106
U. Texas of the Permian Basin	524	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105
Tougaloo C.	525	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102
Furman U.	526	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101
Kettering U.	527	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081
Sul Ross State U.	528	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068
California State U., Dominguez Hills	529	2,743	2,780	2,894	4,671	3,614 i	2,557	2,790	1,858	2,043	1,957	2,065
Seattle U.	530	1,337 i	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Ana G. Mendez, Gurabo	531	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049
Northeastern Illinois U.	532	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018
Mount Holyoke C.	533	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016
U. Texas, Tyler	534	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007
Pepperdine U.	535	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006
Erikson Institute	536	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992
U. Wisconsin-Green Bay	537	1,219	1,239 i	1,259 i	1,279 i	1,299 i	1,320	1,599	1,510	1,454	2,083	1,982
U. Puerto Rico, Cayey	538	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974
Elon U.	539	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968
Bowie State U.	540	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967
Northwestern State U. Louisiana	541	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940
Claflin U.	542	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910
U. North Georgia	543	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905
Coastal Carolina U.	544	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903
Palmer C. of Chiropractic, Davenport	545	4,693	4,861	4,507	3,774	2,736 i	1,698	1,510	1,836	1,600	1,650	1,900
Liberty U.	546	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894
Morehead State U.	547	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883
Hamilton C.	548	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869
Pennsylvania State U., Harrisburg	549	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866
Mercyhurst U.	550	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669 i	ne	1,801 i	1,850 i
California State U., Stanislaus	551	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843
Savannah State U.	552	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804
Eastern Connecticut State U.	553	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659	1,799
Hawaii Pacific U.	554	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796
U. Wisconsin-Oshkosh	555	1,556	2,384	2,331	2,167	1,935 i	1,703 i	ne	1,538 i	1,627 i	1,713 i	1,777 i
Macalester C.	556	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755
Pennsylvania State U., Behrend	557	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743
Monmouth U.	558	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729
Middlebury C.	559	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720
SUNY, C. Brockport	560	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719
U. of the Pacific	561	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713
CUNY, system office	562	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704
Troy U.	563	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692
CUNY, York C.	564	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691
La Sierra U.	565	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647
SUNY, Geneseo	566	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Connecticut C.	567	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598
Central Connecticut State U.	568	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381	1,572
Vassar C.	569	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568
Willamette U.	570	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546
Sonoma State U.	571	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545
Mills C.	572	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541
Colby C.	573	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536
SUNY, Oswego	574	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534
Roger Williams U.	575	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531
Northern Michigan U.	576	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523
Lawrence Technological U.	577	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521
Black Hills State U.	578	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499
California State U., Channel Islands	579	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497
Calvin U.	579	5,010	3,113	3,252	3,466	3,051	2,430 i	1,809	1,456	1,937	1,577	1,497 i
Elizabeth City State U.	581	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473
Indiana State U.	582	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471
U. of the Incarnate Word	583	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469
C. New Jersey	584	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464
U. Puerto Rico, Humacao	585	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456
SUNY, C. Plattsburgh	586	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452
Hofstra U.	587	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445
U. Hartford	588	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436
National U. of Natural Medicine	589	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428
Trinity C., Hartford	589	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428
Franklin W. Olin C. of Engineering	591	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404
U. of Mary Washington	592	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393
Lafayette C.	593	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390
Fort Lewis C.	594	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370
U. Houston-Clear Lake	595	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363
Marshall B. Ketchum U.	596	ne	ne	ne	ne	1,030	1,468	1,491	1,512 i	1,451 i	1,430 i	1,357 i
Wheaton C., Wheaton	597	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322
U. Wisconsin-Eau Claire	598	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318
West Virginia School of Osteopathic Medicine	599	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311
Manhattan C.	600	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307
U. Alaska, Southeast	601	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264
Alaska Pacific U.	602	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Michigan, Flint	603	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247
Jacksonville State U.	604	398	624	ne	ne	ne	3,242	3,231	3,120 i	3,008	2,429	1,244
Fairfield U.	605	9,294	9,892	9,331 i	8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210
Ithaca C.	606	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199
Biola U.	607	ne	ne	ne	ne	ne	ne	1,000 i	1,034 i	1,085 i	1,155 i	1,187 i
Oberlin C.	608	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182
Fort Hays State U.	609	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172
New England C. of Optometry	610	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150
Albion C.	611	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132
Saint John's U., Collegeville	612	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i
Heidelberg U.	613	ne	1,219 i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125
Niagara U.	614	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057	1,124
Doane U.	615	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093	1,123 i
U. Wisconsin-River Falls	616	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107
U. Wisconsin-Platteville	617	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i	1,104 i
Providence C.	618	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092
Florida Polytechnic U.	619	na	na	na	na	na	212	ne	ne	ne	2,006	1,091
New Mexico Highlands U.	620	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090
C. Wooster	621	988	1,225	966	ne	1,321	1,245 i	ne	1,644	1,494	1,758	1,076
C. of Saint Benedict	622	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i
Keene State C.	623	ne	2,290	2,338 i	2,387	2,601	966	ne	908	ne	1,061	1,063
Union C., Schenectady	624	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062
Albany State U.	625	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060
Andrews U.	626	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033
St. Olaf C.	627	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032
Citadel Military C. South Carolina	628	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012
Eastern Kentucky U.	629	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010
U. Minnesota, Morris	630	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004
Lipscomb U.	631	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,000 i
Rhode Island School of Design	632	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i	975 i
Saint Michael's C.	633	644	734	ne	1,620	1,541	1,532	1,624	1,415	1,482	1,200	957
Dickinson C.	634	2,109	2,050	2,167	1,570	1,612	1,492	1,332	869	ne	1,037	929
Emerson C.	635	ne	ne	ne	ne	ne	1,291	1,114	1,488	2,059	1,145	919
Gettysburg C.	636	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913
Kenyon C.	637	428	433	ne	ne	ne	ne	ne	ne	1,227	1,092	908
U. Puget Sound	638	461	530	ne	ne	ne	ne	ne	902	ne	ne	895

TABLE 20

Higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Midwestern State U.	639	348	ne	ne	ne	ne	ne	ne	ne	ne	ne	891
CUNY, Medgar Evers C.	640	658	2,065	1,635	1,241	1,083	970	ne	2,046	2,062	1,397	882
Whitman C.	641	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865
Bradley U.	642	1,151	1,910	2,392	2,860	1,514	1,499	2,122	1,839	1,274	1,357	851
Stonehill C.	643	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	833
La Salle U.	644	1,298	1,460	1,156	1,139	1,039	1,079	989 i	ne	ne	ne	818
Polytechnic U. Puerto Rico	645	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118	813
Salish Kootenai C.	646	880	1,153	1,415	1,612	1,399 i	1,186	1,142	1,481	1,741	1,252	807
Weber State U.	647	983	1,314	990	ne	ne	ne	ne	ne	ne	ne	676
Benedict C.	648	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649
U. Ana G. Mendez, Carolina	649	1,372	1,358	1,480	1,558	1,374	1,174	1,207	1,359	865	ne	647
California Lutheran U.	650	ne	741	ne	ne	ne	ne	ne	ne	ne	1,143	630
St. Bonaventure U.	651	1,727	1,936	986	ne	ne	ne	731	ne	ne	ne	585
Merrimack C.	652	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503
Dine C.	653	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
New Jersey City U.	654	188	ne	ne	ne	ne	ne	ne	5,442	8,211	5,961	262
Columbus State U.	655	ne	1,808	1,432	ne	ne	ne	ne	ne	ne	ne	261
All other surveyed institutions	-	1,444,477	1,848,164	1,794,691	1,726,820	1,064,865	1,057,822	1,061,496	1,083,876	1,114,648	86,894	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	86,296,178	46,143,829	4,596,633	21,946,790	5,184,925	5,745,238	2,678,763
Johns Hopkins U.[a]	1	3,110,494	2,682,410	5,707	157,227	105,906	155,728	3,516
U. Michigan, Ann Arbor	2	1,673,862	884,880	2,074	607,120	96,044	75,131	8,613
U. California, San Francisco	3	1,651,073	676,331	32,635	418,048	120,488	231,371	172,200
U. Pennsylvania	4	1,579,364	721,308	19,955	544,997	176,969	112,832	3,303
U. Washington, Seattle	5	1,456,902	1,024,195	27,087	111,141	57,698	198,220	38,561
U. California, San Diego	6	1,403,735	727,289	45,233	290,347	109,943	110,299	120,624
U. California, Los Angeles	7	1,392,941	655,030	81,216	302,597	82,905	194,946	76,247
U. Wisconsin-Madison	8	1,363,931	632,558	103,607	435,653	29,589	122,835	39,689
Harvard U.	9	1,239,983	605,603	2,351	391,127	49,561	171,566	19,775
Stanford U.	10	1,203,950	751,414	26,257	132,235	114,967	168,843	10,234
Duke U.	11	1,196,638	707,746	938	151,876	205,719	104,685	25,674
Cornell U.	12	1,190,063	562,021	92,178	232,628	56,706	119,570	126,960
U. North Carolina, Chapel Hill	13	1,159,725	706,145	8,129	301,817	49,974	76,679	16,981
Texas A&M U., College Station and Health Science Center	14	1,130,803	517,489	205,190	291,325	35,783	53,539	27,477
U. Pittsburgh, Pittsburgh	15	1,105,532	689,273	11,600	254,704	29,764	65,940	54,251
U. Maryland[b]	16	1,103,062	689,125	39,195	282,188	28,881	57,662	6,011
Yale U.	17	1,094,135	585,170	5,102	339,695	72,714	86,548	4,906
U. Texas M. D. Anderson Cancer Center	18	1,051,297	186,488	291,619	209,905	194,528	31,021	137,736
Georgia Institute of Technology	19	1,048,988	790,518	107,480	71,373	63,120	14,200	2,297
U. Minnesota, Twin Cities	20	1,042,382	514,092	78,122	333,014	48,857	42,157	26,140
Columbia U. in the City of New York	21	1,032,909	762,289	7,250	78,278	77,105	105,442	2,545
Pennsylvania State U., University Park and Hershey Medical Center	22	991,923	638,930	47,196	211,889	29,131	63,664	1,113
Massachusetts Institute of Technology	23	987,968	488,741	2,104	119,003	200,722	99,438	77,960
Ohio State U.	24	968,260	539,359	50,614	151,106	150,235	48,000	28,946
New York U.	25	947,293	448,850	22,203	222,650	51,010	85,710	116,870
U. Florida	26	942,223	397,202	169,194	253,646	37,922	50,483	33,776
U. Southern California	27	941,198	562,120	13,691	197,247	43,425	50,026	74,689
Washington U., Saint Louis	28	920,215	559,882	890	172,213	93,981	91,685	1,564
Northwestern U.	29	874,671	531,654	12	233,695	52,440	48,087	8,783
U. California, Berkeley	30	840,000	349,989	32,598	181,355	81,265	135,100	59,693
Vanderbilt U. and Vanderbilt U. Medical Center	31	824,803	514,299	2,527	197,502	70,229	36,434	3,812
U. California, Davis	32	816,693	380,965	74,086	208,842	54,246	42,970	55,584
Emory U.	33	808,792	452,636	1,031	230,877	54,236	67,600	2,412
U. Texas, Austin	34	797,199	500,409	23,611	147,947	77,789	40,881	6,562
U. Arizona	35	760,975	328,807	33,210	231,170	23,040	34,707	110,041
Icahn School of Medicine at Mount Sinai	36	747,014	480,452	8,270	135,617	61,137	53,691	7,847
Indiana U., Bloomington	37	728,554	343,876	3,434	281,536	26,506	71,676	1,526
Michigan State U.	38	713,197	329,748	47,310	290,251	13,141	18,986	13,761
U. Illinois, Urbana-Champaign	39	689,176	387,853	25,302	186,309	36,178	34,212	19,322

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Rutgers, State U. New Jersey, New Brunswick	40	688,077	311,743	86,581	130,582	60,291	60,621	38,259
Purdue U., West Lafayette	41	687,144	270,605	39,251	228,677	75,499	30,205	42,907
Baylor C. of Medicine	42	685,641	315,101	30,591	222,123	24,991	92,835	0
Arizona State U.	43	673,357	278,150	40,835	248,659	18,148	62,702	24,863
U. Virginia, Charlottesville	44	652,002	300,348	8,780	212,843	29,798	37,430	62,803
U. Alabama, Birmingham	45	618,226	400,110	8,209	116,242	58,758	33,706	1,201
U. Utah	46	607,061	314,023	4,908	209,608	38,458	36,404	3,660
U. Texas Southwestern Medical Center	47	595,939	242,679	66,440	137,027	38,500	53,780	57,513
Boston U.	48	583,267	339,172	517	157,935	22,430	40,325	22,888
Virginia Polytechnic Institute and State U.	49	556,341	210,792	61,192	231,204	39,857	6,319	6,977
U. Colorado Denver and Anschutz Medical Campus	50	554,643	348,724	24,563	71,012	50,627	49,479	10,238
North Carolina State U.	51	546,290	232,110	123,750	131,677	53,302	4,750	701
U. Iowa	52	538,583	259,639	5,489	225,307	28,073	20,062	13
U. Cincinnati	53	530,138	285,899	5,867	144,949	38,587	42,326	12,510
U. Colorado Boulder	54	525,674	427,869	4,435	35,695	9,942	15,348	32,385
U. California, Irvine	55	490,597	241,734	15,947	123,966	33,033	28,381	47,536
U. Georgia	56	482,786	171,351	54,667	220,201	9,490	17,725	9,352
U. Chicago	57	458,891	352,447	224	32,978	36,343	34,865	2,034
California Institute of Technology	58	449,651	316,519	1,394	48,754	18,366	36,500	28,118
Oregon Health and Science U.	59	446,890	321,572	334	44,413	38,692	41,520	359
Scripps Research Institute	60	444,964	243,502	4,503	135,483	22,386	39,090	0
Case Western Reserve U.	61	439,778	357,589	805	48,786	5,185	23,274	4,139
SUNY, U. Buffalo	62	422,038	200,155	25,016	131,323	29,881	19,164	16,499
U. Kentucky	63	417,674	200,664	35,346	130,570	9,985	10,677	30,432
U. Illinois, Chicago	64	412,147	223,030	6,772	135,744	14,766	24,288	7,547
Colorado State U., Fort Collins	65	407,302	287,100	17,707	61,093	13,406	19,938	8,058
U. Rochester	66	397,211	296,241	2,110	46,412	30,271	16,366	5,811
Princeton U.	67	396,502	203,259	300	78,989	19,932	55,398	38,624
Carnegie Mellon U.	68	386,996	217,625	2,735	115,615	36,121	9,210	5,690
U. Miami	69	381,410	224,184	10,841	75,755	34,249	35,005	1,376
U. Kansas	70	368,811	185,007	22,364	116,482	22,089	22,243	626
Iowa State U.	71	363,107	165,912	36,709	125,420	18,149	11,626	5,291
U. Oklahoma, Norman and Health Science Center	72	362,209	183,728	35,983	111,660	17,698	9,232	3,908
Rockefeller U.	73	356,217	86,280	533	230,148	5,110	33,853	293
SUNY, Polytechnic Institute	74	355,651	27,998	169,352	14,251	139,125	588	4,337
Florida State U.	75	350,430	162,296	4,391	164,970	2,177	8,946	7,650
Washington State U.	76	335,201	154,623	51,641	104,722	13,458	7,101	3,656
U. South Florida, Tampa	77	333,344	158,958	14,824	126,104	15,525	14,530	3,403
U. Missouri, Columbia	78	332,180	156,190	25,000	123,624	13,749	8,132	5,485
Dartmouth C. and Dartmouth Hitchcock Medical Center	79	326,349	142,219	1,250	150,097	4,359	21,710	6,714
Uniformed Services U. of the Health Sciences	80	324,510	235,202	0	82,613	0	6,695	0

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Nebraska, Lincoln	81	320,463	107,299	54,240	125,648	19,215	5,451	8,610
U. Tennessee, Knoxville[c]	82	320,407	138,402	15,100	147,875	7,580	6,021	5,429
Utah State U.	83	304,256	242,156	22,820	24,719	7,961	784	5,816
Temple U.	84	299,707	154,600	8,556	93,385	17,721	18,264	7,181
Albert Einstein C. of Medicine	85	288,654	204,635	3,150	65,723	4,286	10,860	0
Louisiana State U., Baton Rouge	86	286,733	87,895	72,026	99,412	10,461	9,391	7,548
Virginia Commonwealth U.	87	283,874	152,751	28,217	75,230	12,699	14,977	0
Mississippi State U.	88	280,485	120,616	90,345	55,647	3,477	9,055	1,345
U. Connecticut	89	280,131	164,848	5,631	79,292	11,409	12,894	6,057
U. Massachusetts, Medical School	90	279,096	192,938	1,410	45,329	15,073	19,535	4,811
U. Hawaii, Manoa	91	275,929	163,694	19,229	76,169	2,623	12,809	1,405
U. Texas Health Science Center, Houston	92	273,862	133,624	42,174	44,129	16,479	24,958	12,498
Medical U. South Carolina	93	272,590	153,802	5,666	73,804	20,747	11,011	7,560
George Washington U.	94	270,369	157,533	1,740	66,453	4,596	28,958	11,089
Oregon State U.	95	268,385	167,494	49,880	25,759	7,387	2,499	15,366
Brown U.	96	266,127	185,676	31	56,188	3,634	14,737	5,861
Medical C. Wisconsin	97	264,325	128,783	440	81,608	24,973	22,878	5,643
SUNY, Stony Brook U.	98	263,470	146,478	13,795	87,367	5,307	8,287	2,236
Georgetown U.	99	258,659	98,682	1,613	66,181	18,307	48,919	24,957
Auburn U., Auburn	100	255,281	73,468	31,628	130,268	6,700	1,632	11,585
U. California, Santa Barbara	101	254,434	123,198	4,335	54,929	22,578	29,986	19,408
Wake Forest U.	102	244,643	166,596	17,361	24,365	13,228	15,449	7,644
U. New Mexico	103	243,375	161,627	6,046	61,092	3,733	9,064	1,813
Wayne State U.	104	243,259	113,137	11,699	81,190	5,703	26,350	5,180
U. Central Florida	105	239,343	114,575	14,653	86,095	12,418	6,049	5,553
Florida International U.	106	236,842	103,366	18,582	104,836	2,271	7,059	728
Clemson U.	107	228,597	82,203	26,544	94,600	18,120	6,894	236
Woods Hole Oceanographic Institution	108	227,573	191,186	1,653	16,741	2,223	6,872	8,898
U. Notre Dame	109	227,535	104,030	530	80,244	6,212	18,563	17,956
George Mason U.	110	221,006	104,070	3,750	58,447	7,972	38,691	8,076
U. Delaware	111	220,445	144,142	10,781	48,912	6,740	4,812	5,058
U. South Carolina, Columbia	112	219,464	97,143	6,028	100,802	4,050	7,250	4,191
U. Massachusetts, Amherst	113	219,389	116,170	7,779	75,307	7,702	8,880	3,551
Tufts U.	114	216,241	148,320	1,634	23,231	10,162	28,558	4,336
Kansas State U.	115	213,900	79,100	42,624	76,929	6,594	7,057	1,596
Tulane U.	116	204,430	107,290	5,103	51,577	5,589	20,228	14,643
U. Texas Health Science Center, San Antonio	117	202,572	102,959	21,895	45,061	8,048	24,287	322
Georgia State U.	118	202,451	78,199	6,910	101,059	575	15,022	686
U. Nebraska, Medical Center	119	202,406	105,158	11,932	43,265	10,072	16,011	15,968
U. Houston	120	200,428	71,779	33,898	74,188	8,034	9,803	2,726
Northeastern U.	121	200,068	136,273	3,767	41,810	9,060	8,568	590
Texas Tech U.	122	199,643	31,475	29,341	114,278	11,588	12,653	308
U. Louisville	123	198,818	88,251	10,365	64,507	11,584	8,518	15,593
Rice U.	124	198,681	88,768	7,104	59,140	8,851	30,199	4,619

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Vermont	125	191,147	97,981	1,115	73,959	3,617	8,565	5,910
West Virginia U.	126	188,452	79,657	8,958	70,620	6,077	5,948	17,192
Oklahoma State U., Stillwater	127	187,060	39,873	22,850	111,227	9,807	2,990	313
U. California, Riverside	128	184,894	92,503	10,827	51,440	6,288	7,826	16,010
U. Texas Medical Branch	129	180,595	114,103	7,302	44,544	5,832	8,814	0
U. Arkansas for Medical Sciences	130	174,549	70,508	11,085	69,885	12,826	5,537	4,708
Thomas Jefferson U.	131	171,377	74,676	3,330	53,798	20,915	9,537	9,121
Montana State U., Bozeman	132	166,285	93,759	18,088	45,253	2,392	4,918	1,875
U. Arkansas, Fayetteville	133	165,887	47,454	54,705	51,260	6,648	5,592	228
U. Louisiana, Lafayette	134	164,070	40,044	10,812	32,175	78,591	2,448	0
U. Dayton	135	163,718	154,101	1,358	2,195	5,439	555	70
U. Nevada, Reno	136	159,790	64,793	8,534	74,320	3,807	2,062	6,274
U. New Hampshire	137	156,901	100,373	4,695	38,439	8,430	3,933	1,031
New Jersey Institute of Technology	138	155,715	85,746	2,987	53,611	3,013	5,719	4,639
North Dakota State U.	139	155,645	31,614	50,334	64,673	1,865	1,074	6,085
Wichita State U.	140	153,816	53,540	6,645	10,004	81,356	110	2,161
U. Alaska, Fairbanks	141	152,299	101,414	2,342	41,423	2,774	1,779	2,567
U. California, Santa Cruz	142	150,400	76,468	5,870	31,824	8,701	15,685	11,852
Syracuse U.	143	149,652	31,861	4,812	97,654	4,516	10,673	136
Drexel U.	144	143,123	82,576	4,650	38,742	3,203	7,513	6,439
U. Texas, San Antonio	145	138,586	34,334	16,210	65,229	5,703	14,490	2,620
SUNY, U. Albany	146	138,088	67,039	5,201	61,302	705	1,744	2,097
U. Texas, Arlington	147	133,793	44,950	19,309	52,902	5,989	8,740	1,903
U. Texas, Dallas	148	132,192	55,983	11,080	36,906	6,496	21,727	0
U. Maine	149	132,184	54,376	18,487	50,890	3,005	3,685	1,741
U. Alabama, Huntsville	150	131,648	104,288	3,407	22,569	970	282	132
U. Mississippi	151	122,960	82,361	5,171	28,635	2,425	4,104	264
SUNY, Binghamton U.	152	117,870	24,564	4,957	82,764	3,588	1,258	739
Cold Spring Harbor Laboratory	153	115,198	62,215	32	32,295	1,222	19,434	0
U. Oregon	154	114,259	81,278	746	27,587	213	3,386	1,049
U. Idaho	155	112,810	51,450	35,509	19,536	2,581	971	2,763
U. North Dakota	156	111,663	44,153	14,272	40,488	11,419	1,039	292
U. Montana, Missoula	157	110,218	62,067	1,026	44,285	556	1,685	599
U. Rhode Island	158	109,967	67,242	9,302	26,749	2,892	2,960	822
U. Texas, El Paso	159	108,628	39,126	20,684	36,075	1,162	1,622	9,959
Rensselaer Polytechnic Institute	160	107,623	52,150	4,959	28,841	15,594	6,079	0
New Mexico State U.	161	107,275	60,971	21,097	13,809	1,644	3,827	5,927
U. Nevada, Las Vegas	162	105,872	29,252	2,493	69,282	1,149	655	3,041
Augusta U.	163	103,961	55,797	504	40,408	3,018	4,211	23
U. Tennessee, Health Science Center	164	99,716	48,264	4,503	26,628	3,353	8,902	8,066
San Diego State U.	165	97,710	41,117	3,073	48,934	836	2,043	1,707
U. Alabama, Tuscaloosa	166	95,200	43,017	16,018	32,141	2,525	1,071	428
Rush U.	167	94,438	65,343	1,886	8,712	12,732	5,765	0
U. Wyoming	168	93,061	57,353	5,164	24,503	4,519	1,394	128

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Massachusetts, Lowell	169	92,216	41,304	8,471	35,980	3,263	1,300	1,898
U. North Texas, Denton	170	84,239	13,653	5,524	61,069	1,619	1,550	824
U. Maryland, Baltimore County	171	83,867	59,391	7,192	13,493	1,271	1,947	573
Colorado School of Mines	172	78,517	55,560	2,131	4,255	10,072	1,822	4,677
Cleveland State U.	173	78,189	53,756	956	16,601	2,166	4,515	195
Michigan Technological U.	174	77,927	36,172	456	31,849	6,661	220	2,569
U. Southern Mississippi	175	72,322	42,870	12,374	11,194	4,399	1,417	68
American U.	176	71,839	16,123	622	43,461	513	10,486	634
Indiana U.-Purdue U., Indianapolis	177	71,387	31,622	1,467	28,006	2,214	7,950	128
Texas State U.	178	70,714	26,950	3,850	33,796	792	5,326	0
Saint Louis U.	179	69,528	34,419	1,202	21,359	4,362	7,975	211
U. Memphis	180	69,463	18,063	7,776	39,192	998	2,914	520
William & Mary	181	66,763	30,436	3,760	25,542	795	4,561	1,669
Old Dominion U.	182	65,704	30,330	16,403	14,436	990	3,217	328
Northern Arizona U.	183	64,456	39,387	7,342	15,645	523	1,358	201
U. Massachusetts, Boston	184	64,219	27,575	3,325	25,435	2,075	5,618	191
Brandeis U.	185	63,201	41,440	1,028	10,612	294	8,699	1,128
Boston C.	186	63,063	31,038	1,801	13,420	872	15,173	759
Naval Postgraduate School	187	62,903	51,870	0	10,059	485	108	381
U. Wisconsin-Milwaukee	188	61,069	25,354	18,056	13,648	1,508	1,149	1,354
South Dakota State U.	189	60,939	22,531	16,477	3,143	1,879	3,800	13,109
U. California, Office of the President	190	60,686	217	31,777	28,666	0	20	6
Van Andel Research Institute	191	58,982	18,538	0	28,709	409	2,566	8,760
East Carolina U.	192	57,820	20,168	620	28,538	3,363	5,131	0
Rochester Institute of Technology	193	57,777	28,092	9,210	15,970	2,392	1,192	921
U. Texas Rio Grande Valley	194	56,702	13,093	7,566	27,680	455	7,653	255
U. Maryland Center for Environmental Science	195	54,560	15,498	27,148	9,503	589	1,563	259
U. Toledo	196	54,100	27,770	1,254	18,793	4,075	2,130	78
Florida Atlantic U.	197	53,845	23,695	4,581	14,711	2,729	5,863	2,266
Ohio U.	198	51,914	15,543	1,398	28,659	4,349	1,452	513
U. South Alabama	199	51,102	21,825	239	24,879	1,511	100	2,548
Kent State U.	200	50,307	15,004	521	32,258	576	1,752	196
U. North Carolina, Charlotte	201	50,050	27,618	1,176	18,128	2,133	908	87
Wright State U.	202	49,825	35,321	5,352	7,833	606	613	100
Mercer U.	203	49,116	31,572	62	9,247	5,452	191	2,592
U. North Texas, Health Science Center	204	47,392	25,917	10,787	7,265	1,463	1,800	160
San Jose State U.	205	47,301	34,102	6,297	4,100	914	1,345	543
Missouri U. of Science and Technology	206	47,001	22,860	230	16,536	4,604	575	2,196
U. California, Merced	207	45,966	20,000	5,108	16,274	558	1,870	2,156
CUNY, City C.	208	45,632	30,106	4,193	8,968	1,068	1,011	286
Howard U.	209	44,933	29,256	1,353	10,860	2,721	743	0
Stevens Institute of Technology	210	44,747	33,461	1,499	7,443	1,356	909	79

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Texas Tech U., Health Sciences Center	211	44,135	13,043	18,200	8,839	357	1,350	2,346
Portland State U.	212	43,667	31,315	4,178	4,680	1,321	1,637	536
Louisiana State U., Health Sciences Center, New Orleans	213	43,419	31,381	196	5,881	2,109	3,290	562
Boise State U.	214	43,307	26,914	2,265	12,867	378	617	266
Worcester Polytechnic Institute	215	43,092	26,074	1,121	9,165	4,003	1,484	1,245
Southern Methodist U.	216	43,081	17,752	877	20,640	2,250	1,562	0
U.S. Air Force Academy	217	42,197	33,554	0	7,841	802	0	0
Southern Illinois U., Carbondale	218	41,617	12,735	467	21,176	6,777	462	0
SUNY, Upstate Medical U.	219	41,557	23,940	1,557	9,460	2,141	2,438	2,021
U. Denver	220	41,349	24,753	964	7,145	1,521	6,270	696
Florida A&M U.	221	41,319	33,136	2,561	4,997	550	75	0
U. West Florida	222	40,051	12,369	681	25,667	741	593	0
Baylor U.	223	39,765	8,851	1,153	21,821	1,395	4,866	1,679
Loyola U., Chicago	224	39,365	24,018	164	7,961	3,384	2,860	978
Brigham Young U., Provo	225	38,569	24,632	1,128	6,386	3,273	2,718	432
CUNY, Hunter C.	226	38,345	26,025	2,622	8,847	229	331	291
Lehigh U.	227	38,064	26,816	1,888	8,181	758	378	43
U. Puerto Rico, Medical Sciences Campus	228	37,217	27,033	361	6,251	3,551	0	21
Marquette U.	229	37,136	13,187	539	15,058	1,027	2,162	5,163
U. Missouri, Kansas City	230	36,356	22,320	110	10,283	964	1,054	1,625
North Carolina Agricultural and Technical State U.	231	36,151	22,338	369	12,766	73	311	294
Air Force Institute of Technology	232	35,584	22,854	0	12,612	118	0	0
SUNY, Downstate Medical Center	233	33,204	26,454	21	5,396	305	696	332
San Francisco State U.	234	33,078 i	16,331 i	2,243 i	13,222 i	67 i	1,200 i	15 i
Texas A&M U.-Corpus Christi	235	32,284	13,349	8,436	4,691	716	2,079	3,013
Illinois State U.	236	32,260	8,719	1,250	21,288	122	871	10
Morehouse School of Medicine	237	29,813	22,500	273	5,504	0	1,536	0
SUNY, C. of Environmental Science and Forestry	238	29,296	7,809	13,768	6,258	663	552	246
U. South Dakota	239	29,279	13,034	1,683	13,893	0	669	0
Illinois Institute of Technology	240	29,122	24,244	36	1,739	1,562	948	593
U. North Carolina, Greensboro	241	28,966	20,447	452	6,039	344	593	1,091
Rutgers, State U. New Jersey, Newark	242	28,006	16,196	1,460	5,902	778	2,050	1,620
U. Massachusetts, Dartmouth	243	26,836	6,506	1,644	16,761	1,354	307	264
Chapman U.	244	26,660	7,850	1,168	11,717	616	5,301	8
California Polytechnic State U., San Luis Obispo	245	26,605	10,178	2,897	9,932	1,280	2,267	51
Louisiana Tech U.	246	26,585	7,167	2,606	14,576	903	0	1,333
U. Puerto Rico, Mayaguez	247	26,553	15,842	681	8,960	712	315	43
Desert Research Institute	248	26,428	15,791	997	4,345	415	3,819	1,061
U. Minnesota, Duluth	249	26,137	6,454	6,935	11,746	845	81	76
Nova Southeastern U.	250	26,035	10,452	2,652	10,764	1,309	610	248

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Rowan U.	251	26,018		15,551		4,401		3,737		818		1,511		0	
Villanova U.	252	25,505		4,921		1,386		17,542		350		1,056		250	
Northern Illinois U.	253	25,420		8,030		1,032		15,823		221		254		60	
Louisiana State U., Health Sciences Center, Shreveport	254	25,321		11,452		58		9,902		340		3,569		0	
Catholic U. of America	255	25,221		22,503		118		1,429		411		760		0	
Loma Linda U.	256	25,077	i	17,457	i	754	i	3,382	i	1,857	i	1,526	i	101	i
California State U., Sacramento	257	24,939		5,693		13,108		5,520		143		433		42	
New Mexico Institute of Mining and Technology	258	24,591		22,922		179		345		881		220		44	
Western Michigan U. and Homer Stryker M.D. School of Medicine	259	24,541		13,187		704		7,351		1,778		307		1,214	
Miami U.	260	24,489		10,473		1,446		10,959		957		532		122	
Delaware State U.	261	23,876	i	12,689	i	514	i	10,647	i	26	i	0	i	0	i
U. Nebraska, central administration	262	23,672		23,104		0		568		0		0		0	
Albany Medical C.	263	23,510		12,940		0		4,069		3,954		1,003		1,544	
U. Akron	264	23,496		10,574		688		6,355		3,898		1,054		927	
U. Puerto Rico, Rio Piedras	265	22,895		14,071		30		8,387		136		202		69	
Texas A&M U.-Kingsville	266	22,745		9,610		3,576		3,711		692		5,110		46	
U. Alaska, Anchorage	267	22,713		15,290		2,385		4,030		446		368		194	
Teachers C., Columbia U.	268	22,630		7,614		265		NA		1,038		10,766		2,947	
Marshall U.	269	22,250		11,078		1,073		8,169		489		1,441		0	
U. Texas Health Science Center, Tyler	270	21,265		7,732		4,022		5,581		252		3,678		0	
California State U., Northridge	271	21,228		17,261		1,422		1,515		35		995		0	
Tuskegee U.	272	20,973		15,122		2,624		2,706		0		0		521	
Eastern Virginia Medical School	273	20,870		15,748		267		2,280		1,244		1,331		0	
Fordham U.	274	20,456		3,831		333		14,154		58		1,118		962	
Creighton U.	275	20,339		7,583		2,929		6,845		1,207		817		958	
New York Medical C.	276	20,137		12,106		1,319		243		4,039		1,812		618	
U. Tulsa	277	18,787		4,697		720		3,104		9,732		427		107	
Bowling Green State U.	278	18,729		6,397		1,114		10,378		8		767		65	
Prairie View A&M U.	279	18,723		9,249		4,754		4,309		212		199		0	
Southern Illinois U., Edwardsville	280	18,273		3,467		90		13,531		989		168		28	
Florida Institute of Technology	281	18,271		10,999		2,028		3,191		922		390		741	
U. South Florida, Saint Petersburg	282	18,243		5,344		4,603		8,119		2		160		15	
Kennesaw State U.	283	17,954		1,983		121		14,582		606		526		136	
Embry-Riddle Aeronautical U.	284	17,786		11,542		29		1,183		3,151		460		1,421	
Montclair State U.	285	17,636		3,782		724		10,659		86		2,363		22	
Duquesne U.	286	17,485		4,981		798		9,566		267		1,873		0	
Central Michigan U.	287	17,448		7,450		70		8,581		57		962		328	
Morgan State U.	288	17,193		14,101		2,263		336		226		267		0	
California State U., Long Beach	289	16,684		12,014		1,908		1,235		617		698		212	
U. New Orleans	290	16,594		3,868		686		9,355		549		1,141		995	
U. North Carolina, Wilmington	291	16,544		6,783		6,013		2,433		569		671		75	

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Queens C.	292	16,470	12,726	1,054	2,304	43	315	28
U. Nebraska, Omaha	293	16,134	9,996	1,845	3,116	74	941	162
North Carolina Central U.	294	15,833	12,787	116	NA	137	1,194	1,599
Northeast Ohio Medical U.	295	15,758	10,684	51	3,655	0	1,368	0
Tennessee State U.	296	15,377	8,707	467	6,141	44	18	0
U. Missouri, Saint Louis	297	15,352	6,146	40	5,875	91	2,526	674
Texas Christian U.	298	15,326	3,168	386	10,010	1,493	166	103
Clarkson U.	299	15,104	7,095	1,394	4,425	1,483	490	217
Jackson State U.	300	15,081	13,662	0	1,226	0	183	10
U. Baltimore	301	15,054	11,748	2,218	NA	6	864	218
Tarleton State U.	302	14,890	4,139	2,779	7,526	334	112	0
Rosalind Franklin U. of Medicine and Science	303	14,601	8,504	56	4,474	958	609	0
South Dakota School of Mines and Technology	304	14,490	10,659	1,173	1,574	699	90	295
Idaho State U.	305	14,478	7,849	2,365	3,535	247	410	72
Langston U.	306	14,409	9,004	4	5,374	27	0	0
Humboldt State U.	307	14,236	2,399	4,147	2,964	212	2,259	2,255
Tennessee Technological U.	308	14,085	6,471	4,174	2,858	299	77	206
Long Island U.	309	13,997	1,349	0	12,135	234	238	41
CUNY, John Jay C. of Criminal Justice	310	13,939	5,297	1,014	2,968	2,159	1,449	1,052
East Tennessee State U.	311	13,925	7,329	49	2,416	334	3,407	390
Meharry Medical C.	312	13,870	12,573	0	315	3	979	0
Alcorn State U.	313	13,710	7,023	4,519	2,110	56	2	0
Charles R. Drew U. of Medicine and Science	314	13,682	9,863	311	3,202	0	306	0
U. of the Virgin Islands	315	13,631	11,787	1,700	26	0	118	0
U. North Florida	316	13,573	4,568	1,531	7,209	153	112	0
U. Hawaii, system office	317	13,568	13,367	0	201	0	0	0
Ponce Health Sciences U.	318	13,566	11,228	220	NA	0	0	2,118
California State U., San Marcos	319	13,250	11,547	1,308	272	0	123	0
New School	320	13,186	1,050	142	3,503	144	7,022	1,325
Missouri State U.	321	13,131	12,310	37	665	115	4	0
U.S. Naval Academy	322	13,123	12,577	0	186	0	360	0
U. Guam	323	13,043	9,722	1,706	1,555	25	0	35
Montana Technological U.	324	12,987	4,322	6,090	1,757	810	0	8
Oakland U.	325	12,949	5,068	57	6,215	313	835	461
Western Washington U.	326	12,823	3,966	706	6,980	82	1,087	2
U.S. Military Academy	327	12,473	8,406	0	2,184	45	191	1,647
Sam Houston State U.	328	12,437	4,764	198	7,379	3	71	22
CUNY, Graduate School of Public Health and Health Policy	329	12,177	8,722	214	1,871	416	951	3
Georgia Southern U.	330	12,166	1,790	625	5,068	4,075	608	0
Bryn Mawr C.	331	11,575	1,531	0	9,742	27	275	0
Hampton U.	332	11,402	11,278	0	124	0	0	0
Xavier U. Louisiana	333	11,387	9,680	775	879	0	53	0
CUNY, Advanced Science Research Center	334	11,373	9,208	169	1,308	158	198	332

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Tennessee, Chattanooga	335	10,834	3,915	889	5,073	151	331	475
California State U., San Bernardino	336	10,819	5,886	2,750	2,093	0	90	0
California State U., Los Angeles	337	10,590	8,380	72	1,817	0	321	0
Midwestern U.	338	10,479	936	50	8,776	481	236	0
Texas Tech U., Health Sciences Center, El Paso	339	10,421	1,703	2,932	5,211	257	318	0
Clark U.	340	10,277	3,350	93	5,338	12	1,456	28
James Madison U.	341	10,247	2,609	373	6,365	173	669	58
Rhode Island C.	342	10,094	4,128	5,448	93	0	425	0
Virginia State U.	343	10,014	5,642	1,431	2,061	0	879	1
U. Arkansas, Little Rock	344	9,711	7,289	259	1,812	31	320	0
St. Edward's U.	345	9,619	7,700	900	925	14	30	50
William Paterson U.	346	9,603	1,896	0	7,575	1	131	0
Salisbury U.	347	9,496	2,413	3,638	3,359	11	75	0
Ball State U.	348	9,429	2,397	453	5,703	605	271	0
Claremont Graduate U.	349	9,403	809	408	3,440	657	4,046	43
Eastern Michigan U.	350	9,088	2,598	63	5,950	61	350	66
California State U., East Bay	351	9,072	2,348	992	5,434	77	221	0
California State U., Fresno	352	8,856	3,117	2,431	1,949	455	904	0
U. Michigan, Dearborn	353	8,777	2,264	16	3,984	2,262	224	27
Alabama A&M U.	354	8,749	5,643	2,541	448	117	0	0
Middle Tennessee State U.	355	8,697	3,062	421	4,098	345	771	0
Arkansas State U., Jonesboro	356	8,640	4,712	2,987	746	187	1	7
U. San Diego	357	8,607	2,398	169	5,418	0	436	186
U. Arkansas, Pine Bluff	358	8,540	4,393	1,748	2,309	0	90	0
Clark Atlanta U.	359	8,452	5,324	0	3,016	47	65	0
Oklahoma State U., Center for Health Sciences	360	8,378	2,618	147	5,486	92	35	0
Wesleyan U.	361	8,300	4,305	31	3,137	97	651	79
Western Kentucky U.	362	8,241	3,265	478	4,250	153	83	12
U. Maryland, Eastern Shore	363	8,092	8,084	0	0	8	0	0
Wellesley C.	364	8,088	4,441	49	NA	158	2,497	943
Kentucky State U.	365	7,963	4,456	3,294	0	142	71	0
U. Oklahoma, Tulsa	366	7,483	1,953	1,060	2,936	115	891	528
Edward Via C. of Osteopathic Medicine	367	7,475	566	3	6,443	150	313	0
California State Polytechnic U., Pomona	368	7,396	5,514	821	509	344	208	0
Loyola Marymount U.	369	7,193	1,105	921	4,593	3	571	0
Norfolk State U.	370	7,153	7,148	0	5	0	0	0
U. Washington, Bothell	371	7,107	2,815	42	1,045	129	3,058	18
CUNY, Brooklyn C.	372	7,074	4,651	198	1,489	72	645	19
Azusa Pacific U.	373	7,068	128	95	6,704	2	139	0
California State U., Bakersfield	374	7,053	4,486	150	2,306	38	22	51
U. Hawaii, Hilo	375	6,992	5,274	102	1,160	179	209	68
U. New England	376	6,886	5,064	1	1,698	26	92	5
Grand Valley State U.	377	6,792	1,831	323	3,475	24	641	498

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Florida Gulf Coast U.	378	6,671		5,304		814		103		104		346		0	
DePaul U.	379	6,557		5,156		0		925		0		450		26	
Indiana U. Pennsylvania	380	6,531		1,309		147		4,647		62		339		27	
West Chester U. Pennsylvania	381	6,414		724		62		5,277		28		175		148	
West Texas A&M U.	382	6,220		1,542		2,440		1,327		805		67		39	
Central State U.	383	6,107		3,097		1,861		1,149		0		0		0	
Naval War C.	384	5,944		5,944		0		0		0		0		0	
California State U., Fullerton	385	5,929		4,121		262		1,163		49		334		0	
Western U. of Health Sciences	386	5,899		4,486		522		29		635		165		62	
Toyota Technological Institute, Chicago	387	5,887		3,038		0		1,513		1,230		106		0	
California State U., Monterey Bay	388	5,874		3,889		1,042		683		8		252		0	
Claremont McKenna C.	389	5,846		771		52		4,512		0		511		0	
Pacific U.	390	5,842		2,596		289		1,961		447		549		0	
Purdue U., Northwest	391	5,839		1,996		786		1,549		759		147		602	
Grinnell C.	392	5,826		644		0		4,328		0		309		545	
U. Central Oklahoma	393	5,788	i	1,444	i	624	i	3,646	i	71	i	3	i	0	i
Winston-Salem State U.	394	5,781		4,498		57		NA		0		818		408	
Lincoln U., Jefferson City	395	5,777		3,636		2,141		NA		0		0		0	
West Virginia State U.	396	5,775		3,993		1,592		159		31		0		0	
C. Charleston	397	5,728		3,087		275		1,727		7		574		58	
Seton Hall U.	398	5,718		2,725		1,993		88		210		702		0	
U. Southern Maine	399	5,635		2,231		3,013		245		0		130		16	
U. Colorado Colorado Springs	400	5,557		3,508		694		486		744		114		11	
Southern Connecticut State U.	401	5,413		1,026		305		3,649		53		188		192	
Bucknell U.	402	5,339	i	1,693	i	76	i	3,023	i	202	i	335	i	10	i
U. Massachusetts, central office	403	5,225		488		3,533		285		242		602		75	
Reed C.	404	5,155		1,806		33		2,897		0		303		116	
Des Moines U.	405	5,021		449		255		4,068		3		246		0	
Williams C.	406	4,924	i	1,086	i	0	i	1,663	i	0	i	137	i	2,038	i
Fort Valley State U.	407	4,921		4,806		0		115		0		0		0	
Amherst C.	408	4,906		1,775		0		2,230		0		10		891	
Appalachian State U.	409	4,894		1,469		199		2,568		112		485		61	
U. of Health Sciences and Pharmacy in St. Louis	410	4,835		3,767		0		547		431		90		0	
Morehouse C.	411	4,825		4,825		0		0		0		0		0	
U. North Carolina, Asheville	412	4,789		2,405		349		435		2		1,598		0	
CUNY, Graduate Center	413	4,787		2,561		78		169		0		825		1,154	
U. Detroit Mercy	414	4,786		4,226		0		524		13		23		0	
Texas Southern U.	415	4,782		2,941		1,048		789		0		4		0	
U. Wisconsin-Stevens Point	416	4,764		2,193		932		1,044		3		341		251	
Smith C.	417	4,685		2,650		0		1,401		68		566		0	
Gallaudet U.	418	4,599		1,841		0		2,414		0		326		18	
U. of the District of Columbia	419	4,590		2,664		0		1,922		0		0		4	
National Defense U.	420	4,583		4,583		0		0		0		0		0	

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Southern U. and A&M C., Agricultural Research and Extension Center	421	4,475	2,085	2,338	52	0	0	0
Haverford C.	422	4,473	2,680	0	1,168	0	163	462
Dakota State U.	423	4,412	3,957	34	220	192	9	0
Roseman U. of Health Sciences	424	4,380	56	0	4,099	216	9	0
Lamar U.	425	4,327	2,146	1,309	136	281	455	0
California State U., Chico	426	4,305	2,520	747	491	16	148	383
Pace U.	427	4,272	2,997	0	1,103	7	147	18
Oregon Institute of Technology	428	4,267	326	2,119	561	976	285	0
Stockton U.	429	4,236	872	2,235	1,008	0	121	0
Texas A&M U.-Commerce	430	4,166	1,226	313	2,252	46	205	124
CUNY, Lehman C.	431	4,154	3,197	0	500	82	44	331
Texas Woman's U.	432	4,135	1,700	699	1,058	59	619	0
Youngstown State U.	433	4,120	3,308	128	560	107	17	0
Rutgers, State U. New Jersey, Camden	434	3,950	1,952	91	1,136	166	603	2
U. North Carolina, general administration	435	3,942	572	3,370	0	0	0	0
U. Central del Caribe	436	3,931	2,743	267	846	0	0	75
Fisk U.	437	3,904	3,811	15	0	16	62	0
Southern U. and A&M C., Baton Rouge	438	3,849	2,996	23	441	389	0	0
U. New Haven	439	3,843	1,440	473	363	390	1,170	7
Hope C.	440	3,822	1,155	0	1,492	0	1,119	56
South Carolina State U.	441	3,796 i	3,796 i	NA	NA	NA	NA	NA
Albany C. of Pharmacy and Health Sciences	442	3,765	1,938	0	822	841	137	27
U. of the Sciences Philadelphia	443	3,761	1,126	234	1,042	850	509	0
Barnard C.	444	3,748	2,800	0	467	60	421	0
U. Northern Colorado	445	3,738	1,853	262	1,267	8	348	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	446	3,737	342	0	3,362	0	33	0
Carleton C.	447	3,732	1,236	17	2,052	0	427	0
CUNY, C. Staten Island	448	3,682	2,295	603	483	2	84	215
Stephen F. Austin State U.	449	3,672	1,257	1,316	703	32	206	158
Franklin and Marshall C.	450	3,623	1,202	204	1,747	231	73	166
Towson U.	451	3,612	2,010	126	1,185	15	156	120
New York Institute of Technology	452	3,580	1,542	153	1,592	0	293	0
Touro U.	453	3,551	1,558	63	1,876	53	1	0
MGH Institute of Health Professions	454	3,549	3,014	0	20	0	515	0
Swarthmore C.	455	3,544	1,041	0	2,278	0	225	0
U. Washington, Tacoma	456	3,504	3,075	120	207	0	102	0
SUNY, C. of Optometry	457	3,477	1,688	0	524	1,233	10	22
Trinity U.	458	3,472	1,207	17	1,280	0	886	82

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Central Arkansas	459	3,455	1,421	865	1,054	50	65	0
U. Illinois, Springfield	460	3,406	976	1,352	996	26	56	0
Philadelphia C. of Osteopathic Medicine	461	3,360	422	0	2,415	0	523	0
Lewis and Clark C.	462	3,350	1,268	0	1,527	0	555	0
High Tech High Graduate School of Ed.	463	3,304	0	0	0	0	3,304	0
St. John's U., New York	464	3,282	1,805	0	789	147	374	167
California State U., Maritime Academy	465	3,202	621	151	85	2,345	0	0
Milwaukee School of Engineering	466	3,190	613	0	0	2,575	2	0
Saint Joseph's U.	467	3,150	1,047	812	1,084	123	84	0
Colorado State U., Pueblo	468	3,104	1,161	1,791	152	0	0	0
Texas A&M International U.	469	3,067	986	707	647	63	637	27
St. Cloud State U.	470	3,056	459	366	1,358	536	337	0
Murray State U.	471	3,019	1,929	37	1,007	46	0	0
U. Northern Iowa	472	2,970	1,881	343	702	4	40	0
Harvey Mudd C.	473	2,916	1,748	0	926	26	93	123
Colgate U.	474	2,913	918	0	1,768	12	215	0
Pomona C.	475	2,855	1,123	12	1,564	0	156	0
Austin Peay State U.	476	2,833	475	1,329	908	1	106	14
Fayetteville State U.	477	2,797	1,008	421	1,185	123	60	0
U. Wisconsin-La Crosse	478	2,795	817	848	434	455	234	7
Alfred U.	479	2,780	947	857	662	314	0	0
Yeshiva U.	480	2,763	772	0	1,407	0	239	345
Minnesota State U., Mankato	481	2,754	525	121	1,071	0	885	152
Spelman C.	482	2,750	2,136	0	477	137	0	0
Bowdoin C.	483	2,719	1,862	33	707	1	116	0
Northwest Indian C.	484	2,708 i	2,497 i	0 i	36 i	0 i	175 i	0 i
Western Carolina U.	485	2,696	1,707	228	479	121	161	0
Northern Kentucky U.	486	2,693	1,462	86	854	5	286	0
Santa Clara U.	487	2,682	1,522	311	NA	283	566	0
U. of St. Thomas (MN)	488	2,679	450	212	801	550	555	111
Central Washington U.	489	2,674	1,701	242	336	102	211	82
Occidental C.	490	2,657	1,567	279	NA	303	508	0
U. Nebraska, Kearney	491	2,640	1,259	330	961	39	17	34
Christopher Newport U.	492	2,608	1,365	17	903	108	98	117
U. South Carolina, Aiken	493	2,590	2,328	0	255	0	7	0
Alabama State U.	494	2,582	2,582	0	0	0	0	0
Dillard U.	495	2,523	1,200	87	771	0	98	367
Johnson C. Smith U.	496	2,472	2,230	132	0	10	100	0
U. Richmond	497	2,469	1,628	0	613	0	228	0
Western Illinois U.	498	2,461	1,801	168	254	217	0	21
Grambling State U.	499	2,427	787	560	1,080	0	0	0
Skidmore C.	500	2,412	1,827	0	441	0	144	0
CUNY, Baruch C.	501	2,396	1,470	14	434	0	367	111
U. Louisiana, Monroe	502	2,362	2,025	210	69	22	36	0

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds						
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Babson C.	503	2,352	14	0	1,007	358	683	290
Saginaw Valley State U.	504	2,343	1,809	0	398	5	115	16
Framingham State U.	505	2,317	179	0	0	78	2,060	0
Bates C.	506	2,303	1,885	0	212	0	104	102
U. Wisconsin-Superior	507	2,301	1,382	174	563	66	10	106
U. Houston-Downtown	508	2,299	1,392	120	280	0	507	0
Colorado C.	509	2,291	196	290	917	0	888	0
Eastern Washington U.	510	2,282	1,153	931	NA	14	134	50
Purdue U., Fort Wayne	511	2,264	589	408	713	70	54	430
Davidson C.	512	2,263	1,411	0	413	10	408	21
Southeastern Louisiana U.	513	2,258	884	213	913	61	187	0
SUNY, Buffalo State	514	2,253	1,241	619	293	35	49	16
Winthrop U.	515	2,217	1,563	293	220	34	107	0
Kean U.	516	2,201	775	447	885	29	26	39
Pittsburg State U.	517	2,173	477	570	NA	1,085	41	0
U. San Francisco	518	2,161	148	118	1,372	0	523	0
Keck Graduate Institute	519	2,152 i	1,113 i	0 i	687 i	142 i	35 i	175 i
U. South Florida, Sarasota-Manatee	520	2,150	10	0	2,096	0	44	0
CUNY, New York City C. of Technology	521	2,130	1,585	0	136	404	5	0
Hobart and William Smith Colleges	522	2,114	1,072	436	384	0	85	137
Suffolk U.	523	2,106	844	0	1,010	0	252	0
U. Texas of the Permian Basin	524	2,105	757	32	562	0	754	0
Tougaloo C.	525	2,102	2,102	0	0	0	0	0
Furman U.	526	2,101	847	10	1,099	0	38	107
Kettering U.	527	2,081	568	8	832	591	63	19
Sul Ross State U.	528	2,068	481	126	119	25	785	532
California State U., Dominguez Hills	529	2,065	1,433	32	600	0	0	0
Seattle U.	530	2,060	1,303	62	160	1	334	200
U. Ana G. Mendez, Gurabo	531	2,049	946	0	1,103	0	0	0
Northeastern Illinois U.	532	2,018	2,018	0	0	0	0	0
Mount Holyoke C.	533	2,016	1,442	0	227	0	347	0
U. Texas, Tyler	534	2,007	774	225	631	207	96	74
Pepperdine U.	535	2,006	693	31	623	0	634	25
Erikson Institute	536	1,992	1,006	0	96	0	890	0
U. Wisconsin-Green Bay	537	1,982	890	500	207	41	172	172
U. Puerto Rico, Cayey	538	1,974	1,210	0	639	13	112	0
Elon U.	539	1,968	106	0	1,828	0	34	0
Bowie State U.	540	1,967	1,967	0	0	0	0	0
Northwestern State U. Louisiana	541	1,940	598	1,105	237	0	0	0
Claflin U.	542	1,910	1,907	0	0	0	3	0
U. North Georgia	543	1,905	542	40	858	7	458	0
Coastal Carolina U.	544	1,903	1,211	119	61	0	512	0
Palmer C. of Chiropractic, Davenport	545	1,900	1,400	0	500	0	0	0

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Liberty U.	546	1,894		886		0		513		316		146		33	
Morehead State U.	547	1,883		1,674		50		133		0		26		0	
Hamilton C.	548	1,869		144		0		1,270		0		397		58	
Pennsylvania State U., Harrisburg	549	1,866		451		67		1,277		25		46		0	
Mercyhurst U.	550	1,850	i	690	i	568	i	592	i	0	i	0	i	0	i
California State U., Stanislaus	551	1,843		1,284		73		79		399		8		0	
Savannah State U.	552	1,804		1,804		0		0		0		0		0	
Eastern Connecticut State U.	553	1,799		177		1		1,621		0		0		0	
Hawaii Pacific U.	554	1,796		1,699		52		27		0		4		14	
U. Wisconsin-Oshkosh	555	1,777	i	1,336	i	0	i	0	i	0	i	0	i	441	i
Macalester C.	556	1,755		647		84		794		0		230		0	
Pennsylvania State U., Behrend	557	1,743		543		7		0		718		475		0	
Monmouth U.	558	1,729		110		1,149		70		20		309		71	
Middlebury C.	559	1,720		1,546		0		132		1		41		0	
SUNY, C. Brockport	560	1,719		781		343		574		20		1		0	
U. of the Pacific	561	1,713		1,375		96		NA		13		229		0	
CUNY, system office	562	1,704		884		164		163		26		105		362	
Troy U.	563	1,692		1,591		0		66		16		19		0	
CUNY, York C.	564	1,691		1,513		0		156		0		22		0	
La Sierra U.	565	1,647		618		0		531		0		498		0	
SUNY, Geneseo	566	1,642		950		12		675		0		5		0	
Connecticut C.	567	1,598		483		0		1,071		0		44		0	
Central Connecticut State U.	568	1,572		901		264		407		0		0		0	
Vassar C.	569	1,568		1,055		0		306		0		182		25	
Willamette U.	570	1,546		401		1		768		0		376		0	
Sonoma State U.	571	1,545		936		310		247		16		36		0	
Mills C.	572	1,541		1,341		24		70		0		90		16	
Colby C.	573	1,536		809		0		388		0		0		339	
SUNY, Oswego	574	1,534		492		61		945		8		15		13	
Roger Williams U.	575	1,531		1,045		80		301		17		88		0	
Northern Michigan U.	576	1,523		446		0		876		15		10		176	
Lawrence Technological U.	577	1,521		405		174		64		212		666		0	
Black Hills State U.	578	1,499		1,287		98		114		0		0		0	
California State U., Channel Islands	579	1,497		553		574		339		31		0		0	
Calvin U.	579	1,497	i	888	i	30	i	5	i	92	i	176	i	306	i
Elizabeth City State U.	581	1,473		1,455		11		NA		0		0		7	
Indiana State U.	582	1,471		949		241		204		31		46		0	
U. of the Incarnate Word	583	1,469		869		130		155		42		268		5	
C. New Jersey	584	1,464		951		32		153		49		279		0	
U. Puerto Rico, Humacao	585	1,456		1,279		0		177		0		0		0	
SUNY, C. Plattsburgh	586	1,452		950		37		353		0		9		103	
Hofstra U.	587	1,445		997		231		96		3		64		54	
U. Hartford	588	1,436		854		0		568		14		0		0	
National U. of Natural Medicine	589	1,428		912		0		333		160		0		23	
Trinity C., Hartford	589	1,428		1,019		0		353		2		54		0	

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Franklin W. Olin C. of Engineering	591	1,404		293		0		530		27		499		55	
U. of Mary Washington	592	1,393		660		20		594		0		90		29	
Lafayette C.	593	1,390		755		14		522		1		53		45	
Fort Lewis C.	594	1,370		1,228		51		79		12		0		0	
U. Houston-Clear Lake	595	1,363		632		513		33		102		83		0	
Marshall B. Ketchum U.	596	1,357	i	323	i	0	i	685	i	349	i	0	i	0	i
Wheaton C., Wheaton	597	1,322		324		0		309		1		688		0	
U. Wisconsin-Eau Claire	598	1,318		647		292		219		59		99		2	
West Virginia School of Osteopathic Medicine	599	1,311		419		8		884		0		0		0	
Manhattan C.	600	1,307		398		174		503		232		0		0	
U. Alaska, Southeast	601	1,264		1,098		65		76		0		25		0	
Alaska Pacific U.	602	1,261		148		0		0		1,100		10		3	
U. Michigan, Flint	603	1,247		276		3		588		366		8		6	
Jacksonville State U.	604	1,244		1,216		0		28		0		0		0	
Fairfield U.	605	1,210		365		0		255		0		590		0	
Ithaca C.	606	1,199		981		0		170		0		13		35	
Biola U.	607	1,187	i	662	i	18	i	300	i	79	i	97	i	31	i
Oberlin C.	608	1,182		743		0		360		73		6		0	
Fort Hays State U.	609	1,172		764		24		168		209		7		0	
New England C. of Optometry	610	1,150		785		0		166		193		6		0	
Albion C.	611	1,132		272		0		860		0		0		0	
Saint John's U., Collegeville	612	1,130	i	0	i	0	i	1,130	i	0	i	0	i	0	i
Heidelberg U.	613	1,125		188		824		48		53		12		0	
Niagara U.	614	1,124		24		258		352		0		490		0	
Doane U.	615	1,123	i	958	i	0	i	148	i	0	i	17	i	0	i
U. Wisconsin-River Falls	616	1,107		488		408		7		152		0		52	
U. Wisconsin-Platteville	617	1,104	i	336	i	285	i	189	i	256	i	29	i	9	i
Providence C.	618	1,092		913		0		127		0		52		0	
Florida Polytechnic U.	619	1,091		252		289		479		46		5		20	
New Mexico Highlands U.	620	1,090		1,034		0		0		0		56		0	
C. Wooster	621	1,076		283		0		703		0		90		0	
C. of Saint Benedict	622	1,069	i	43	i	0	i	1,026	i	0	i	0	i	0	i
Keene State C.	623	1,063		1,043		0		19		0		1		0	
Union C., Schenectady	624	1,062		462		4		483		24		58		31	
Albany State U.	625	1,060		836		116		0		108		0		0	
Andrews U.	626	1,033		263		2		565		0		203		0	
St. Olaf C.	627	1,032		230		0		652		0		150		0	
Citadel Military C. South Carolina	628	1,012		736		0		135		0		11		130	
Eastern Kentucky U.	629	1,010		554		66		309		4		77		0	
U. Minnesota, Morris	630	1,004		213		138		647		0		6		0	
Lipscomb U.	631	1,000	i	557	i	15	i	247	i	66	i	86	i	29	i
Rhode Island School of Design	632	975	i	236	i	42	i	426	i	221	i	50	i	0	i
Saint Michael's C.	633	957		775		0		182		0		0		0	
Dickinson C.	634	929		222		87		325		49		29		217	
Emerson C.	635	919		84		171		279		27		202		156	

TABLE 21

Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Gettysburg C.	636	913	320	0	144	46	227	176
Kenyon C.	637	908	714	0	146	0	48	0
U. Puget Sound	638	895	401	0	238	0	206	50
Midwestern State U.	639	891	599	36	201	0	55	0
CUNY, Medgar Evers C.	640	882	588	0	245	0	48	1
Whitman C.	641	865	558	0	246	0	61	0
Bradley U.	642	851	235	86	207	301	0	22
Stonehill C.	643	833	674	0	159	0	0	0
La Salle U.	644	818	14	0	804	0	0	0
Polytechnic U. Puerto Rico	645	813	813	0	NA	0	0	0
Salish Kootenai C.	646	807	802	0	0	0	5	0
Weber State U.	647	676	424	159	33	30	30	0
Benedict C.	648	649	635	3	0	0	11	0
U. Ana G. Mendez, Carolina	649	647	520	0	127	0	0	0
California Lutheran U.	650	630	271	0	359	0	0	0
St. Bonaventure U.	651	585	265	0	136	8	12	164
Merrimack C.	652	503	306	0	72	0	125	0
Dine C.	653	347	347	0	0	0	0	0
New Jersey City U.	654	262	223	0	39	0	0	0
Columbus State U.	655	261	93	0	105	58	5	0

i = imputed. NA = not available; data were not provided by institution.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6. For complete rankings of all institutions in both survey populations, see table 5.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	86,296,178	2,923,149	3,281,251	49,640,508	798,975	5,667,046	1,357,081	2,947,338	952,459	13,692,756	5,035,615
Johns Hopkins U.[a]	1	3,110,494	226,696 i	65,556 i	1,047,668 i	105,774 i	390,245 i	5,918 i	6,221 i	50,959 i	1,205,632 i	5,825 i
U. Michigan, Ann Arbor	2	1,673,862	15,180	14,928	967,660	18,648	60,824	20,413	187,421	4,528	283,329	100,931
U. California, San Francisco	3	1,651,073	0	0	1,581,411	0	69,662	0	0	0	0	0
U. Pennsylvania	4	1,579,364	26,318	1,760	1,185,719	6,817	58,157	15,854	51,374	4,670	82,299	146,396
U. Washington, Seattle	5	1,456,902	27,986	135,307	963,264	7,120	60,477	8,802	15,458	0	152,919	85,569
U. California, San Diego	6	1,403,735	30,370	201,331	828,401	4,857	94,124	20,113	19,942	13,715	182,495	8,387
U. California, Los Angeles	7	1,392,941	17,480	41,594	989,602	13,161	54,697	19,087	60,591	48,975	93,520	54,234
U. Wisconsin-Madison	8	1,363,931	28,241	65,000	839,302	6,675	83,687	12,090	59,239	44,219	133,600	91,878
Harvard U.	9	1,239,983	15,250	43,505	684,127	20,038	100,654	5,099	142,484	7,303	97,884	123,639
Stanford U.	10	1,203,950	26,512	20,216	836,401	7,036	94,954	18,866	24,770	104	130,950	44,141
Duke U.	11	1,196,638	6,019	9,675	990,897	9,842	22,396	8,953	36,760	10	95,657	16,429
Cornell U.	12	1,190,063	31,173	8,145	822,419	3,323	121,218	11,516	25,622	0	123,703	42,944
U. North Carolina, Chapel Hill	13	1,159,725	26,765	19,242	868,276	6,729	39,979	41,741	82,154	116	30,774	43,949
Texas A&M U., College Station and Health Science Center	14	1,130,803	18,504	107,894	502,372	8,768	54,574	5,248	29,389	5,636	357,559	40,859
U. Pittsburgh, Pittsburgh	15	1,105,532	9,312	10,875	954,315	4,169	27,652	17,680	4,990	10,268	53,586	12,685
U. Maryland[b]	16	1,103,062	50,541	58,099	594,114	5,356	105,718	9,288	64,636	7,050	153,109	55,151
Yale U.	17	1,094,135	5,969	5,916	944,439	4,703	56,046	9,684	15,994	139	36,806	14,439
U. Texas M. D. Anderson Cancer Center	18	1,051,297	0	0	981,164	21,622	19,060	16,860	12,591	0	0	0
Georgia Institute of Technology	19	1,048,988	185,400	12,904	43,699	8,826	34,215	3,943	33,645	0	695,176	31,180
U. Minnesota, Twin Cities	20	1,042,382	22,996	14,715	722,074	8,994	43,946	31,954	31,218	2,488	120,929	43,068
Columbia U. in the City of New York	21	1,032,909	25,101	78,288	744,239	4,118	37,384	5,234	14,784	0	72,758	51,003
Pennsylvania State U., University Park and Hershey Medical Center	22	991,923	89,490	41,590	291,299	17,706	94,201	40,599	27,842	0	367,730	21,466
Massachusetts Institute of Technology	23	987,968	111,779	32,718	126,648	10,434	153,044	484	51,477	19,833	419,636	61,915
Ohio State U.	24	968,260	22,869	9,158	590,076	5,881	57,083	7,542	18,486	27,995	175,109	54,061
New York U.	25	947,293	14,584	401	643,638	13,465	26,698	28,468	30,676	53	100,207	89,103
U. Florida	26	942,223	13,006	17,740	688,091	1,726	25,532	10,922	13,552	42	119,066	52,546
U. Southern California	27	941,198	121,116	19,983	580,982	1,617	23,644	14,234	59,926	0	78,005	41,691
Washington U., Saint Louis	28	920,215	5,467	5,509	824,978	959	23,401	6,052	1,191	3,303	23,821	25,534
Northwestern U.	29	874,671	8,441	1,351	619,270	2,275	78,168	3,706	18,762	38,556	77,150	26,992
U. California, Berkeley	30	840,000	12,701	9,845	258,228	8,263	141,434	19,329	60,568	76,642	209,293	43,697

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Vanderbilt U. and Vanderbilt U. Medical Center	31	824,803	0	1,919	625,549	1,689	28,017	15,682	7,187	0	94,674	50,086
U. California, Davis	32	816,693	7,256	30,153	597,962	4,455	26,495	3,022	28,486	8,894	97,951	12,019
Emory U.	33	808,792	2,345	1,075	732,893	2,357	22,505	4,817	3,352	0	11,349	28,099
U. Texas, Austin	34	797,199	139,290	61,145	130,377	20,290	81,380	10,435	20,650	3,413	259,935	70,284
U. Arizona	35	760,975	15,084	31,148	437,147	3,098	149,138	2,900	17,689	7,566	79,463	17,742
Icahn School of Medicine at Mount Sinai	36	747,014	0	0	747,014	0	0	0	0	0	0	0
Indiana U., Bloomington	37	728,554	43,034	7,962	518,775	1,740	33,389	12,822	47,029	13,701	14,294	35,808
Michigan State U.	38	713,197	15,783	5,435	319,883	12,494	154,318	16,399	50,407	16,975	82,690	38,813
U. Illinois, Urbana-Champaign	39	689,176	95,988	6,281	241,661	5,346	72,360	16,086	5,846	11,429	203,564	30,615
Rutgers, State U. New Jersey, New Brunswick	40	688,077	6,402	25,634	518,906	9,493	25,703	8,256	7,005	4,377	55,880	26,421
Purdue U., West Lafayette	41	687,144	27,886	10,166	243,953	2,671	42,370	7,176	21,150	2,751	280,592	48,429
Baylor C. of Medicine	42	685,641	0	0	685,641	0	0	0	0	0	0	0
Arizona State U.	43	673,357	22,231	73,544	103,558	5,942	25,619	17,645	83,980	107,393	155,015	78,430
U. Virginia, Charlottesville	44	652,002	26,286	6,040	420,679	1,593	27,628	10,335	16,948	2,567	72,602	67,324
U. Alabama, Birmingham	45	618,226	1,502	701	542,308	916	4,678	5,164	246	0	53,030	9,681
U. Utah	46	607,061	37,159 i	20,011 i	402,001 i	4,065 i	30,170 i	11,198 i	14,837 i	189 i	57,608 i	29,823 i
U. Texas Southwestern Medical Center	47	595,939	0	0	595,939	0	0	0	0	0	0	0
Boston U.	48	583,267	14,251	8,573	373,079	5,199	30,909	20,413	7,931	8,078	85,651	29,183
Virginia Polytechnic Institute and State U.	49	556,341	30,405	3,068	199,798	6,776	24,214	4,899	13,082	219	263,711	10,169
U. Colorado Denver and Anschutz Medical Campus	50	554,643	234	612	536,533	524	1,192	1,921	282	3	6,180	7,162
North Carolina State U.	51	546,290	16,119	27,010	240,399	20,164	23,464	2,479	9,826	13,888	174,740	18,201
U. Iowa	52	538,583	3,547	2,441	414,459	624	23,226	8,817	6,875	2,371	48,433	27,790
U. Cincinnati	53	530,138	2,031	1,171	440,721	1,422	8,874	1,667	11,291	977	43,098	18,886
U. Colorado Boulder	54	525,674	15,627	119,824	52,074	2,659	115,340	11,982	16,443	2,177	160,423	29,125
U. California, Irvine	55	490,597	21,573	12,705	289,422	7,106	40,964	11,448	12,741	799	59,695	34,144
U. Georgia	56	482,786	3,760	20,493	302,667	6,690	11,295	25,773	23,737	5,968	19,273	63,130
U. Chicago	57	458,891	24,422	9,090	302,820	4,726	51,122	8,006	23,750	0	24,468	10,487
California Institute of Technology	58	449,651	15,072	43,338	89,626	1,387	217,581	0	0	0	51,693	30,954
Oregon Health and Science U.	59	446,890	0	0	433,917	0	0	53	0	0	12,856	64
Scripps Research Institute	60	444,964	0	0	444,964	0	0	0	0	0	0	0
Case Western Reserve U.	61	439,778	34	523	384,857	355	8,063	1,155	4,386	441	37,911	2,053
SUNY, U. Buffalo	62	422,038	18,747	3,739	241,467	1,067	11,161	5,113	6,356	1,147	112,843	20,398

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kentucky	63	417,674	4,054	2,966	322,077	1,336	8,553	3,537	3,696	12,936	46,976	11,543
U. Illinois, Chicago	64	412,147	12,999	1,021	314,296	4,109	15,752	3,621	7,905	4,862	31,496	16,086
Colorado State U., Fort Collins	65	407,302	4,278	67,642	231,734	4,190	11,356	3,255	14,787	3,963	42,839	23,258
U. Rochester	66	397,211	4,021	3,104	259,224	201	101,004	5,576	279	6,249	16,116	1,437
Princeton U.	67	396,502	24,160	23,819	91,903	13,550	94,815	9,240	57,913	0	67,014	14,088
Carnegie Mellon U.	68	386,996	192,119	448	14,696	12,000	21,580	11,507	12,461	5,365	102,955	13,865
U. Miami	69	381,410	283	50,684	302,160	1,420	5,150	13,896	1,812	5	5,060	940
U. Kansas	70	368,811	4,416	10,485	226,786	672	7,502	16,106	6,450	238	19,830	76,326
Iowa State U.	71	363,107	7,666	4,538	123,853	17,062	27,216	3,786	6,923	5,821	109,473	56,769
U. Oklahoma, Norman and Health Science Center	72	362,209	3,019	84,812	164,967	2,018	18,739	1,608	25,818	0	36,643	24,585
Rockefeller U.	73	356,217	9,058	986	337,377	1,612	7,184	0	0	0	0	0
SUNY, Polytechnic Institute	74	355,651	0	0	1,977	0	0	0	0	0	353,542	132
Florida State U.	75	350,430	10,349	20,816	64,315	7,128	68,454	17,715	19,446	5,335	56,493	80,379
Washington State U.	76	335,201	8,251	9,440	196,649	447	24,243	3,875	12,338	55	39,533	40,370
U. South Florida, Tampa	77	333,344	9,417	24,670	164,666	3,165	11,433	4,710	31,616	500	37,162	46,005
U. Missouri, Columbia	78	332,180	4,187	988	220,890	1,279	9,173	7,898	3,957	2,191	53,343	28,274
Dartmouth C. and Dartmouth Hitchcock Medical Center	79	326,349	14,889	5,241	170,704	5,848	21,219	13,239	20,370	2,901	31,140	40,798
Uniformed Services U. of the Health Sciences	80	324,510	0	0	316,838	0	0	7,672	0	0	0	0
U. Nebraska, Lincoln	81	320,463	8,541	2,943	161,499	5,526	25,853	12,761	14,322	1,805	51,685	35,528
U. Tennessee, Knoxville[c]	82	320,407	13,906	5,322	84,619	3,181	21,239	5,465	12,171	17,869	128,542	28,093
Utah State U.	83	304,256	2,538	511	56,017	846	6,606	4,698	2,601	461	226,616	3,362
Temple U.	84	299,707	5,901	2,044	216,388	3,213	18,447	11,418	6,746	807	9,294	25,449
Albert Einstein C. of Medicine	85	288,654	0	0	288,654	0	0	0	0	0	0	0
Louisiana State U., Baton Rouge	86	286,733	8,284	32,283	155,187	2,701	22,366	902	4,888	11,116	40,084	8,922
Virginia Commonwealth U.	87	283,874	2,138	354	206,550	793	3,499	10,743	1,701	0	29,811	28,285
Mississippi State U.	88	280,485	5,189	17,335	119,753	1,959	10,381	2,044	32,157	6,329	69,220	16,118
U. Connecticut	89	280,131	5,575	9,186	157,618	2,344	18,546	21,553	6,645	2,179	46,751	9,734
U. Massachusetts, Medical School	90	279,096	0	0	279,096	0	0	0	0	0	0	0
U. Hawaii, Manoa	91	275,929	11,963	71,468	123,649	515	29,491	441	4,851	5,519	25,423	2,609
U. Texas Health Science Center, Houston	92	273,862	0	0	273,862	0	0	0	0	0	0	0
Medical U. South Carolina	93	272,590	0	0	272,590	0	0	0	0	0	0	0
George Washington U.	94	270,369	7,308	436	179,803	926	8,313	3,074	25,348	1,855	22,682	20,624

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oregon State U.	95	268,385	8,213	39,215	143,505	1,595	4,814	1,115	6,696	6,373	50,900	5,959
Brown U.	96	266,127	15,695	5,954	134,751	12,204	17,745	7,889	30,782	7,886	23,965	9,256
Medical C. Wisconsin	97	264,325	0	0	255,783	0	0	0	0	0	8,542	0
SUNY, Stony Brook U.	98	263,470	10,909	25,334	121,070	7,629	41,224	4,946	2,881	16,030	30,180	3,267
Georgetown U.	99	258,659	18,620	0	155,197	1,765	9,151	2,615	35,933	2,223	0	33,155
Auburn U., Auburn	100	255,281	5,006	3,460	110,768	3,736	15,247	2,824	6,902	2,967	70,593	33,778
U. California, Santa Barbara	101	254,434	9,231	40,396	30,838	1,416	58,534	4,929	7,631	867	87,681	12,911
Wake Forest U.	102	244,643	226	0	236,154	529	2,196	847	460	0	859	3,372
U. New Mexico	103	243,375	3,964	6,924	148,158	1,422	8,063	6,827	10,624	8,528	42,739	6,126
Wayne State U.	104	243,259	2,133	296	182,757	1,716	16,895	1,464	3,289	8,397	12,806	13,506
U. Central Florida	105	239,343	29,423	4,008	32,376	3,197	34,630	10,968	9,513	1,602	62,071	51,555
Florida International U.	106	236,842	16,175	16,023	55,877	1,470	27,354	34,642	17,828	1,063	39,826	26,584
Clemson U.	107	228,597	4,852	0	71,776	2,607	10,823	633	6,680	0	76,971	54,255
Woods Hole Oceanographic Institution	108	227,573	0	143,240	0	0	0	0	0	0	84,333	0
U. Notre Dame	109	227,535	14,904	0	27,750	5,257	44,855	5,450	8,860	9,261	84,478	26,720
George Mason U.	110	221,006	23,969	10,679	33,163	1,941	5,586	3,196	67,966	0	52,423	22,083
U. Delaware	111	220,445	6,648	17,697	66,097	1,887	25,192	7,485	12,936	2,317	74,258	5,928
U. South Carolina, Columbia	112	219,464	4,809	8,374	98,789	1,817	4,651	9,768	16,626	271	42,804	31,555
U. Massachusetts, Amherst	113	219,389	31,199	4,265	64,246	3,361	28,757	7,836	4,819	1,711	58,804	14,391
Tufts U.	114	216,241	4,273	472	136,826	3,409	15,438	2,420	12,852	6,931	26,662	6,958
Kansas State U.	115	213,900	3,511	1,479	127,024	3,246	12,583	5,215	10,750	7,776	28,155	14,161
Tulane U.	116	204,430	2,257	4,825	161,642	581	5,720	1,942	6,876	0	6,881	13,706
U. Texas Health Science Center, San Antonio	117	202,572	0	0	202,572	0	0	0	0	0	0	0
Georgia State U.	118	202,451	3,435	1,104	66,831	1,973	19,395	8,952	24,697	0	0	76,064
U. Nebraska, Medical Center	119	202,406	0	0	202,406	0	0	0	0	0	0	0
U. Houston	120	200,428	5,599	9,437	34,394	3,596	50,164	13,999	1,536	647	55,210	25,846
Northeastern U.	121	200,068	21,118	4,039	32,626	878	20,709	8,863	11,615	0	89,954	10,266
Texas Tech U.	122	199,643	5,111	8,913	49,230	3,402	15,103	10,670	11,877	0	42,856	52,481
U. Louisville	123	198,818	97	180	158,677	494	2,954	2,050	1,593	719	18,105	13,949
Rice U.	124	198,681	10,760	5,152	16,008	9,363	33,656	4,798	19,959	604	91,913	6,468
U. Vermont	125	191,147	3,036	2,716	142,081	2,154	4,877	3,084	4,492	5,179	11,209	12,319
West Virginia U.	126	188,452	1,894	9,625	108,264	482	12,678	1,773	3,590	1,257	40,786	8,103

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oklahoma State U., Stillwater	127	187,060	5,361	2,870	75,506	4,213	9,784	9,085	6,251	6,533	33,983	33,474
U. California, Riverside	128	184,894	8,974	10,855	95,431	1,682	17,037	2,950	5,132	3,923	31,937	6,973
U. Texas Medical Branch	129	180,595	0	0	179,403	0	0	0	0	0	1,192	0
U. Arkansas for Medical Sciences	130	174,549	0	0	174,549	0	0	0	0	0	0	0
Thomas Jefferson U.	131	171,377	0	0	171,207	0	0	4	0	0	143	23
Montana State U., Bozeman	132	166,285	1,459	5,603	71,440	2,536	17,990	359	1,126	8,097	38,833	18,842
U. Arkansas, Fayetteville	133	165,887	4,591	3,499	77,569	97	9,791	707	7,186	85	37,758	24,604
U. Louisiana, Lafayette	134	164,070	11,111	5,426	87,621	2,117	3,546	327	97	102	27,878	25,845
U. Dayton	135	163,718	7,200	359	632	4	868	33	38	0	153,082	1,502
U. Nevada, Reno	136	159,790	7,550	15,077	71,378	2,341	9,566	5,430	7,053	1,993	23,939	15,463
U. New Hampshire	137	156,901	854	51,661	52,822	404	4,425	877	11,344	0	23,457	11,057
New Jersey Institute of Technology	138	155,715	9,177	0	19,871	4,756	15,829	0	8,314	59	82,047	15,662
North Dakota State U.	139	155,645	3,433	553	101,693	1,120	6,502	2,798	15,215	4,546	14,007	5,778
Wichita State U.	140	153,816	0	44	2,980	105	1,114	543	36	0	134,848	14,146
U. Alaska, Fairbanks	141	152,299	1,148	72,609	29,409	346	15,551	367	1,810	11,281	17,843	1,935
U. California, Santa Cruz	142	150,400	5,009	29,389	27,565	236	36,262	487	5,724	347	41,752	3,629
Syracuse U.	143	149,652	5,081	3,060	10,724	2,528	13,905	3,771	14,165	184	24,272	71,962
Drexel U.	144	143,123	4,105	0	89,027	546	2,437	2,852	2,854	1,741	31,230	8,331
U. Texas, San Antonio	145	138,586	12,064	2,354	25,911	1,529	11,234	4,716	9,447	1,429	22,922	46,980
SUNY, U. Albany	146	138,088	6,591	15,523	60,025	1,774	7,719	4,982	20,551	0	3,319	17,604
U. Texas, Arlington	147	133,793	7,572	877	18,430	2,053	17,257	1,329	104	0	59,395	26,776
U. Texas, Dallas	148	132,192	9,992	856	35,986	1,155	17,759	789	2,166	16	50,812	12,661
U. Maine	149	132,184	1,967	24,051	39,354	845	6,351	1,183	2,274	10,215	36,760	9,184
U. Alabama, Huntsville	150	131,648	36,636	17,304	3,170	726	13,353	218	1,717	0	51,198	7,326
U. Mississippi	151	122,960	207	1,151	86,130	216	11,652	620	2,317	18	13,661	6,988
SUNY, Binghamton U.	152	117,870	7,873	1,916	12,877	2,830	18,586	12,263	16,907	0	32,668	11,950
Cold Spring Harbor Laboratory	153	115,198	0	0	115,051	0	0	0	0	0	0	147
U. Oregon	154	114,259	5,652	6,704	35,936	906	12,984	17,505	8,911	0	0	25,661
U. Idaho	155	112,810	1,595	4,933	73,933	205	1,539	320	5,076	4,548	17,035	3,626
U. North Dakota	156	111,663	3,199	6,781	31,526	434	3,489	1,506	1,616	985	52,511	9,616
U. Montana, Missoula	157	110,218	1,746	5,878	66,817	1,187	7,592	791	17,493	0	0	8,714
U. Rhode Island	158	109,967	523	42,634	27,699	0	3,869	2,059	2,377	12,716	10,182	7,908

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, El Paso	159	108,628	7,597	3,426	28,552	2,927	6,775	5,285	4,161	3,542	25,172	21,191
Rensselaer Polytechnic Institute	160	107,623	14,484	2,837	6,102	2,808	12,143	3,568	355	0	57,923	7,403
New Mexico State U.	161	107,275	4,539	5,381	43,340	188	26,366	276	469	228	25,030	1,458
U. Nevada, Las Vegas	162	105,872	1,077	6,342	34,733	2,347	9,692	3,767	6,306	613	12,729	28,266
Augusta U.	163	103,961	61	0	103,554	13	29	101	128	0	0	75
U. Tennessee, Health Science Center	164	99,716	0	0	98,345	0	0	0	0	723	648	0
San Diego State U.	165	97,710	1,519	2,234	27,880	3,899	6,402	20,222	5,106	3,669	7,934	18,845
U. Alabama, Tuscaloosa	166	95,200	12,836	3,062	8,985	262	6,471	3,030	4,595	0	33,019	22,940
Rush U.	167	94,438	0	0	92,494	0	0	1,944	0	0	0	0
U. Wyoming	168	93,061	581	12,944	47,073	1,276	1,248	664	535	7,100	20,317	1,323
U. Massachusetts, Lowell	169	92,216	7,153	2,177	12,056	663	19,144	1,746	5,924	636	35,847	6,870
U. North Texas, Denton	170	84,239	4,769	2,064	12,745	1,676	9,275	4,489	7,541	0	15,205	26,475
U. Maryland, Baltimore County	171	83,867	11,590	15,158	11,478	729	18,278	1,973	11,597	2,195	6,671	4,198
Colorado School of Mines	172	78,517	3,748	8,916	2,073	583	11,346	0	1,403	0	46,694	3,754
Cleveland State U.	173	78,189	0	0	46,618	784	1,547	653	6,265	0	16,225	6,097
Michigan Technological U.	174	77,927	2,994	13,896	3,804	2,260	4,094	551	1,260	609	45,263	3,196
U. Southern Mississippi	175	72,322	144	29,843	11,248	195	13,422	0	3,645	0	5,999	7,826
American U.	176	71,839	672	642	1,886	1,559	4,714	2,248	20,632	5,152	0	34,334
Indiana U.-Purdue U., Indianapolis	177	71,387	5,002	1,277	21,183	595	2,324	4,592	16,055	4,584	7,179	8,596
Texas State U.	178	70,714	2,197	7,357	12,417	1,038	2,208	223	4,907	2,003	6,892	31,472
Saint Louis U.	179	69,528	1,164	1,174	58,836	280	1,942	393	448	0	2,621	2,670
U. Memphis	180	69,463	8,486	5,493	10,395	1,241	3,014	5,455	7,750	1,618	10,741	15,270
William & Mary	181	66,763	2,917	33,084	2,694	438	5,781	320	10,623	0	0	10,906
Old Dominion U.	182	65,704	2,196	4,166	14,463	1,239	7,028	1,419	2,482	0	25,869	6,842
Northern Arizona U.	183	64,456	2,671	7,408	38,862	0	7,064	725	419	403	4,996	1,908
U. Massachusetts, Boston	184	64,219	1,242	3,848	8,950	449	3,584	4,361	12,734	453	1,206	27,392
Brandeis U.	185	63,201	1,721	12	23,263	551	9,384	3,351	16,191	189	0	8,539
Boston C.	186	63,063	599	5,836	9,824	1,289	9,306	4,452	11,862	0	0	19,895
Naval Postgraduate School	187	62,903	7,345	6,566	1,655	2,824	9,161	0	6,040	1,752	22,933	4,627
U. Wisconsin-Milwaukee	188	61,069	116	7,288	10,279	4,792	8,699	4,404	6,710	2,811	9,683	6,287
South Dakota State U.	189	60,939	13	904	49,659	401	1,974	192	1,967	0	5,490	339
U. California, Office of the President	190	60,686	1,485	0	46,725	0	8,123	0	0	4,353	0	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Van Andel Research Institute	191	58,982	0	0	58,982	0	0	0	0	0	0	0
East Carolina U.	192	57,820	828	4,586	33,206	75	2,168	1,321	1,886	0	3,053	10,697
Rochester Institute of Technology	193	57,777	8,910	0	1,238	2,040	13,830	60	2,584	0	20,910	8,205
U. Texas Rio Grande Valley	194	56,702	1,520	1,769	28,351	2,174	5,148	917	3,660	53	4,018	9,092
U. Maryland Center for Environmental Science	195	54,560	2	43,554	9,194	5	541	0	216	42	122	884
U. Toledo	196	54,100	0	5,748	27,748	49	7,445	452	378	0	10,023	2,257
Florida Atlantic U.	197	53,845	2,586	1,186	28,725	1,268	3,147	2,306	210	0	10,574	3,843
Ohio U.	198	51,914	703	1,697	15,375	90	5,370	1,827	960	56	16,291	9,545
U. South Alabama	199	51,102	3,846	5,011	36,664	80	433	311	586	0	3,640	531
Kent State U.	200	50,307	1,766	958	8,335	1,309	8,381	4,776	4,793	868	2,743	16,378
U. North Carolina, Charlotte	201	50,050	10,163	1,009	4,512	1,029	4,003	711	3,973	0	19,781	4,869
Wright State U.	202	49,825	2,034	210	13,515	145	1,774	1,525	0	252	29,519	851
Mercer U.	203	49,116	136	0	8,624	224	2,038	258	81	144	37,450	161
U. North Texas, Health Science Center	204	47,392	0	0	46,526	0	0	0	866	0	0	0
San Jose State U.	205	47,301	10	13,747	1,542	0	2,445	19,670	190	7	2,863	6,827
Missouri U. of Science and Technology	206	47,001	2,648	0	971	222	6,107	173	61	184	36,447	188
U. California, Merced	207	45,966	194	2,943	9,333	3,047	7,593	1,712	2,988	420	15,191	2,545
CUNY, City C.	208	45,632	1,490	1,699	7,167	389	9,591	693	6	0	23,140	1,457
Howard U.	209	44,933	1,523	225	25,750	230	5,308	1,878	827	0	8,336	856
Stevens Institute of Technology	210	44,747	3,606	3,527	203	37	1,834	0	0	330	33,103	2,107
Texas Tech U., Health Sciences Center	211	44,135	0	0	43,102	0	0	0	0	0	0	1,033
Portland State U.	212	43,667	1,164	2,212	13,547	1,115	2,326	1,766	3,882	923	6,719	10,013
Louisiana State U., Health Sciences Center, New Orleans	213	43,419	0	0	43,419	0	0	0	0	0	0	0
Boise State U.	214	43,307	1,761	3,660	10,616	1,137	3,788	171	3,200	630	13,956	4,388
Worcester Polytechnic Institute	215	43,092	10,150	0	2,104	1,404	2,773	0	1,760	0	23,758	1,143
Southern Methodist U.	216	43,081	683	6,100	2,144	1,291	3,847	1,457	326	1,236	9,798	16,199
U.S. Air Force Academy	217	42,197	490	0	0	0	2,714	0	292	0	29,812	8,889
Southern Illinois U., Carbondale	218	41,617	396	848	33,480	278	2,013	223	954	1,092	2,333	0
SUNY, Upstate Medical U.	219	41,557	0	0	41,557	0	0	0	0	0	0	0
U. Denver	220	41,349	99	168	4,889	120	4,913	5,870	2,092	0	4,461	18,737
Florida A&M U.	221	41,319	102	5,844	21,450	0	1,410	242	21	329	4,796	7,125
U. West Florida	222	40,051	1,995	875	2,081	313	576	142	4,236	0	278	29,555

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baylor U.	223	39,765	1,011	2,185	7,456	933	6,993	2,726	1,945	3,549	4,515	8,452
Loyola U., Chicago	224	39,365	160	121	35,073	188	763	1,105	800	0	0	1,155
Brigham Young U., Provo	225	38,569	1,350	461	9,218	348	5,268	298	924	0	15,943	4,759
CUNY, Hunter C.	226	38,345	1,726	1,339	8,957	174	4,197	14,507	3,051	0	0	4,394
Lehigh U.	227	38,064	2,333	1,510	4,121	228	3,495	561	95	30	24,054	1,637
U. Puerto Rico, Medical Sciences Campus	228	37,217	0	136	37,081	0	0	0	0	0	0	0
Marquette U.	229	37,136	834	0	11,696	1,734	2,681	1,140	1,008	0	10,059	7,984
U. Missouri, Kansas City	230	36,356	1,625	308	20,183	14	1,680	1,064	907	563	8,351	1,661
North Carolina Agricultural and Technical State U.	231	36,151	1,742	31	16,663	818	1,638	30	67	0	10,393	4,769
Air Force Institute of Technology	232	35,584	2,441	742	0	658	7,796	0	0	0	23,947	0
SUNY, Downstate Medical Center	233	33,204	0	0	33,204	0	0	0	0	0	0	0
San Francisco State U.	234	33,078 i	869 i	4,450 i	13,391 i	1,060 i	3,200 i	1,375 i	3,760 i	1,344 i	1,330 i	2,299 i
Texas A&M U.-Corpus Christi	235	32,284	222	11,900	6,975	21	1,437	0	151	476	7,064	4,038
Illinois State U.	236	32,260	65	791	3,183	229	567	20	2,351	0	0	25,054
Morehouse School of Medicine	237	29,813	0	0	29,813	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	238	29,296	119	1,211	26,083	0	294	180	110	91	912	296
U. South Dakota	239	29,279	799	5	17,172	160	4,054	687	504	0	1,385	4,513
Illinois Institute of Technology	240	29,122	2,988	398	9,993	405	3,143	0	100	42	11,934	119
U. North Carolina, Greensboro	241	28,966	510	0	7,582	215	3,505	2,805	747	0	0	13,602
Rutgers, State U. New Jersey, Newark	242	28,006	2,269	1,485	13,014	0	2,384	2,132	1,678	156	0	4,888
U. Massachusetts, Dartmouth	243	26,836	1,572	10,917	1,467	717	2,116	94	499	0	7,944	1,510
Chapman U.	244	26,660	665	212	7,307	1	2,062	888	2,714	0	102	12,709
California Polytechnic State U., San Luis Obispo	245	26,605	626	1,105	7,929	2,841	5,672	185	675	0	4,646	2,926
Louisiana Tech U.	246	26,585	2,475	84	2,510	771	1,775	571	726	0	11,459	6,214
U. Puerto Rico, Mayaguez	247	26,553	0	5,487	1,881	45	1,347	0	233	0	16,903	657
Desert Research Institute	248	26,428	0	22,889	3,539	0	0	0	0	0	0	0
U. Minnesota, Duluth	249	26,137	289	2,480	19,580	152	840	25	82	0	2,186	503
Nova Southeastern U.	250	26,035	146	11,436	13,298	0	0	596	0	0	0	559
Rowan U.	251	26,018	482	409	11,115	0	664	504	311	0	11,784	749
Villanova U.	252	25,505	527	826	3,438	60	3,573	1,141	656	0	10,193	5,091
Northern Illinois U.	253	25,420	661	553	2,319	76	5,560	1,057	4,982	0	1,467	8,745
Louisiana State U., Health Sciences Center, Shreveport	254	25,321	0	0	25,321	0	0	0	0	0	0	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Catholic U. of America	255	25,221	0	0	2,000	0	17,669	347	502	63	3,518	1,122
Loma Linda U.	256	25,077 i	0 i	0 i	25,077 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Sacramento	257	24,939	178	839	1,328	94	296	310	7,680	2,956	7,744	3,514
New Mexico Institute of Mining and Technology	258	24,591	2,780	6,729	260	53	1,361	0	0	0	13,084	324
Western Michigan U. and Homer Stryker M.D. School of Medicine	259	24,541	145	1,402	6,999	40	1,309	191	169	4	5,091	9,191
Miami U.	260	24,489	721	1,354	12,044	310	1,329	1,685	582	0	3,783	2,681
Delaware State U.	261	23,876 i	1 i	654 i	14,314 i	865 i	4,461 i	1 i	176 i	549 i	2,332 i	523 i
U. Nebraska, central administration	262	23,672	1,385	0	13,089	0	0	0	0	0	8,340	858
Albany Medical C.	263	23,510	0	0	23,510	0	0	0	0	0	0	0
U. Akron	264	23,496	1	285	1,882	82	8,576	328	95	1	11,345	901
U. Puerto Rico, Rio Piedras	265	22,895	207	3,754	3,617	145	4,429	0	1,119	4,276	341	5,007
Texas A&M U.-Kingsville	266	22,745	0	849	16,722	0	164	98	0	82	2,653	2,177
U. Alaska, Anchorage	267	22,713	165	7,339	6,857	0	184	181	3,306	2,990	1,101	590
Teachers C., Columbia U.	268	22,630	2,459	0	4,455	0	0	1,387	13,869	0	0	460
Marshall U.	269	22,250	287	258	16,302	1	1,030	0	5	0	1,137	3,230
U. Texas Health Science Center, Tyler	270	21,265	0	0	21,265	0	0	0	0	0	0	0
California State U., Northridge	271	21,228	201	2,158	6,822	980	5,407	473	559	1,690	1,115	1,823
Tuskegee U.	272	20,973	409	0	8,145	1,240	166	0	4,907	184	5,922	0
Eastern Virginia Medical School	273	20,870	0	0	20,870	0	0	0	0	0	0	0
Fordham U.	274	20,456	390	0	1,435	173	747	1,632	1,095	0	0	14,984
Creighton U.	275	20,339	730 i	465 i	14,845 i	204 i	1,463 i	259 i	933 i	0 i	0 i	1,440 i
New York Medical C.	276	20,137	0	0	20,137	0	0	0	0	0	0	0
U. Tulsa	277	18,787	3,139	213	678	4	424	604	243	0	13,182	300
Bowling Green State U.	278	18,729	274	1,903	1,766	532	2,326	1,444	3,333	0	121	7,030
Prairie View A&M U.	279	18,723	292	62	8,280	145	1,353	536	213	0	5,222	2,620
Southern Illinois U., Edwardsville	280	18,273	151	1,979	8,190	817	911	0	286	502	1,424	4,013
Florida Institute of Technology	281	18,271	4,287	2,310	667	188	2,777	1,652	0	33	5,362	995
U. South Florida, Saint Petersburg	282	18,243	0	0	1,120	0	56	1,413	3	0	0	15,651
Kennesaw State U.	283	17,954	3,727	0	5,740	107	1,019	38	2,096	350	1,478	3,399
Embry-Riddle Aeronautical U.	284	17,786	526	1,336	17	84	2,744	0	714	0	12,015	350
Montclair State U.	285	17,636	535	1,262	3,277	726	589	2,060	2,138	3	14	7,032

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Duquesne U.	286	17,485	0	584	9,914	233	2,326	414	6	0	374	3,634
Central Michigan U.	287	17,448	105	677	9,145	120	2,508	497	169	2,093	736	1,398
Morgan State U.	288	17,193	520	3,384	5,061	134	411	83	98	0	7,228	274
California State U., Long Beach	289	16,684	102	514	4,816	691	2,670	1,465	625	284	4,733	784
U. New Orleans	290	16,594	1,591	1,585	974	389	2,398	497	3,341	629	2,282	2,908
U. North Carolina, Wilmington	291	16,544	210	5,206	7,090	105	375	183	709	487	640	1,539
CUNY, Queens C.	292	16,470	182	817	11,236	228	1,444	1,222	477	0	0	864
U. Nebraska, Omaha	293	16,134	3,185	18	5,892	200	62	405	1,856	65	1,195	3,256
North Carolina Central U.	294	15,833	28	321	7,233	0	3,027	0	415	0	2,675	2,134
Northeast Ohio Medical U.	295	15,758	0	0	15,579	0	0	0	40	137	0	2
Tennessee State U.	296	15,377	148	0	12,466	111	457	245	6	0	1,480	464
U. Missouri, Saint Louis	297	15,352	833	0	7,254	265	1,910	140	2,265	9	0	2,676
Texas Christian U.	298	15,326	126	248	822	2	695	189	319	11,143	46	1,736
Clarkson U.	299	15,104	517	59	999	780	2,217	86	74	0	9,363	1,009
Jackson State U.	300	15,081	502	189	2,129	97	9,903	25	201	465	1,468	102
U. Baltimore	301	15,054	22	0	0	0	67	0	3,367	0	0	11,598
Tarleton State U.	302	14,890	412	3,188	6,429	450	263	294	639	422	156	2,637
Rosalind Franklin U. of Medicine and Science	303	14,601	0	0	14,516	0	0	85	0	0	0	0
South Dakota School of Mines and Technology	304	14,490	49	0	0	339	1,425	0	0	0	12,677	0
Idaho State U.	305	14,478	820	1,792	3,936	0	1,372	318	240	740	5,014	246
Langston U.	306	14,409	0	0	13,843	2	109	0	0	0	0	455
Humboldt State U.	307	14,236	64	1,464	7,291	10	193	0	616	0	4,261	337
Tennessee Technological U.	308	14,085	2,221	60	2,306	59	1,178	175	55	0	7,559	472
Long Island U.	309	13,997	0	345	6,526	457	784	1,189	847	0	0	3,849
CUNY, John Jay C. of Criminal Justice	310	13,939	195	0	92	5	507	3,546	210	2	0	9,382
East Tennessee State U.	311	13,925	19 i	0 i	10,103 i	149 i	439 i	2,755 i	88 i	0 i	65 i	307 i
Meharry Medical C.	312	13,870	0	0	13,870	0	0	0	0	0	0	0
Alcorn State U.	313	13,710	0	0	7,918	0	0	0	5,659	0	133	0
Charles R. Drew U. of Medicine and Science	314	13,682	0	0	13,682	0	0	0	0	0	0	0
U. of the Virgin Islands	315	13,631	148	3,639	7,103	694	908	0	228	0	902	9
U. North Florida	316	13,573	178	10	1,388	70	682	96	633	0	2,433	8,083
U. Hawaii, system office	317	13,568	1,715	11,853	0	0	0	0	0	0	0	0

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ponce Health Sciences U.	318	13,566	0	0	13,566	0	0	0	0	0	0	0
California State U., San Marcos	319	13,250	987	47	1,888	82	1,667	1,261	884	2,694	2,408	1,332
New School	320	13,186	6	537	324	0	0	1,249	3,790	144	3,205	3,931
Missouri State U.	321	13,131	53	95	1,812	0	418	28	357	0	10,257	111
U.S. Naval Academy	322	13,123	1,519	775	0	1,013	2,144	0	0	0	7,376	296
U. Guam	323	13,043	0	2,696	9,824	0	0	0	154	0	0	369
Montana Technological U.	324	12,987	0	7,825	708	0	123	0	0	0	4,331	0
Oakland U.	325	12,949	1,073	0	5,653	34	4,821	184	45	0	1,041	98
Western Washington U.	326	12,823	318	3,897	958	347	1,323	1,213	690	580	989	2,508
U.S. Military Academy	327	12,473	469	98	421	0	814	120	284	4,369	5,297	601
Sam Houston State U.	328	12,437	18	72	1,730	338	481	602	2,444	53	20	6,679
CUNY, Graduate School of Public Health and Health Policy	329	12,177	0	0	10,899	0	0	1,278	0	0	0	0
Georgia Southern U.	330	12,166	65	719	1,664	67	5,465	27	113	0	1,929	2,117
Bryn Mawr C.	331	11,575	691	260	705	561	1,423	295	1,573	0	0	6,067
Hampton U.	332	11,402	699	3,454	1,745	226	3,142	0	710	0	866	560
Xavier U. Louisiana	333	11,387	100	0	3,929	0	7,186	55	0	0	65	52
CUNY, Advanced Science Research Center	334	11,373	0	104	4,679	0	4,154	0	0	0	2,289	147
U. Tennessee, Chattanooga	335	10,834	975	0	1,036	189	52	242	68	3,179	3,319	1,774
California State U., San Bernardino	336	10,819	472	87	948	633	1,569	1,775	320	13	1,598	3,404
California State U., Los Angeles	337	10,590	36	0	2,299	10	5,241	110	1,570	0	922	402
Midwestern U.	338	10,479	0	0	10,479	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	339	10,421	0	0	10,294	0	0	0	0	0	0	127
Clark U.	340	10,277	60	1,890	1,953	0	1,648	622	3,575	47	0	482
James Madison U.	341	10,247	325	753	1,844	159	1,337	1,379	37	30	305	4,078
Rhode Island C.	342	10,094	63	0	808	0	361	171	35	0	0	8,656
Virginia State U.	343	10,014	0	0	6,123	645	0	0	0	0	1,058	2,188
U. Arkansas, Little Rock	344	9,711	3,246	0	2,878	0	1,105	0	27	0	1,627	828
St. Edward's U.	345	9,619	1,150	528	1,620	645	1,074	20	340	0	0	4,242
William Paterson U.	346	9,603	125	579	1,210	185	361	944	1,568	0	0	4,631
Salisbury U.	347	9,496	346	891	2,366	113	212	19	485	0	0	5,064
Ball State U.	348	9,429	1,263	9	2,738	51	834	214	1,662	0	0	2,658
Claremont Graduate U.	349	9,403	207	0	0	70	0	966	3,122	0	0	5,038

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Michigan U.	350	9,088	376	172	3,498	216	690	183	1,039	8	402	2,504
California State U., East Bay	351	9,072	329	1,029	1,103	896	939	410	677	0	132	3,557
California State U., Fresno	352	8,856	117	147	4,306	412	1,127	34	456	0	1,748	509
U. Michigan, Dearborn	353	8,777	11	0	382	155	135	112	114	144	7,088	636
Alabama A&M U.	354	8,749	301 i	0 i	5,142 i	83 i	636 i	174 i	298 i	0 i	1,603 i	512 i
Middle Tennessee State U.	355	8,697	245	48	2,029	39	596	58	1,583	0	182	3,917
Arkansas State U., Jonesboro	356	8,640	290	0	6,636	4	876	55	148	257	371	3
U. San Diego	357	8,607	0	163	217	225	1,496	190	289	68	1,252	4,707
U. Arkansas, Pine Bluff	358	8,540	0	0	7,415	0	540	0	0	572	0	13
Clark Atlanta U.	359	8,452	183	0	6,017	194	1,649	0	58	0	158	193
Oklahoma State U., Center for Health Sciences	360	8,378	95	0	7,616	0	0	373	0	0	258	36
Wesleyan U.	361	8,300	0	821	909	533	2,383	871	454	0	0	2,329
Western Kentucky U.	362	8,241	13	842	2,888	27	1,785	672	106	0	689	1,219
U. Maryland, Eastern Shore	363	8,092	0	3,454	2,572	0	1,243	0	695	0	128	0
Wellesley C.	364	8,088	431	161	1,455	255	391	229	1,402	0	633	3,131
Kentucky State U.	365	7,963	32	0	7,806	125	0	0	0	0	0	0
U. Oklahoma, Tulsa	366	7,483	0	0	2,633	0	0	0	142	0	1,816	2,892
Edward Via C. of Osteopathic Medicine	367	7,475	0	0	7,475	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	368	7,396	653	68	2,656	138	1,395	0	39	327	1,875	245
Loyola Marymount U.	369	7,193	24	489	591	187	233	1,515	1,285	0	165	2,704
Norfolk State U.	370	7,153	4,921	0	114	48	726	0	0	0	1,312	32
U. Washington, Bothell	371	7,107	41	371	558	31	156	0	0	103	0	5,847
CUNY, Brooklyn C.	372	7,074	403	645	2,519	221	1,105	1,264	243	0	118	556
Azusa Pacific U.	373	7,068	148	0	2,002	64	205	885	274	0	31	3,459
California State U., Bakersfield	374	7,053	0	176	245	3,173	91	504	264	0	1,449	1,151
U. Hawaii, Hilo	375	6,992	1	894	4,149	1,126	217	0	207	363	0	35
U. New England	376	6,886	0	936	5,904	0	26	6	9	0	0	5
Grand Valley State U.	377	6,792	9	2,887	1,914	166	374	63	657	48	236	438
Florida Gulf Coast U.	378	6,671	41	1,654	760	232	397	0	118	2	250	3,217
DePaul U.	379	6,557	1,528	91	465	0	305	3,343	22	0	0	803
Indiana U. Pennsylvania	380	6,531	331	161	1,251	26	425	630	842	2	0	2,863
West Chester U. Pennsylvania	381	6,414	7	65	1,072	196	425	205	892	0	0	3,552

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
West Texas A&M U.	382	6,220	210	219	3,570	1	211	0	0	0	1,277	732
Central State U.	383	6,107	0	126	5,451	37	6	0	0	321	166	0
Naval War C.	384	5,944	0	0	0	0	0	0	724	0	0	5,220
California State U., Fullerton	385	5,929	83	329	2,440	11	1,254	106	110	508	616	472
Western U. of Health Sciences	386	5,899	0	0	4,866	0	0	0	0	0	0	1,033
Toyota Technological Institute, Chicago	387	5,887	5,887	0	0	0	0	0	0	0	0	0
California State U., Monterey Bay	388	5,874	1,023	1,281	3,225	234	0	0	0	0	0	111
Claremont McKenna C.	389	5,846	0	29	400	85	144	157	4,545	43	0	443
Pacific U.	390	5,842	0	0	3,852	42	120	2	90	434	0	1,302
Purdue U., Northwest	391	5,839	524	0	988	0	207	39	9	127	2,521	1,424
Grinnell C.	392	5,826	357	0	487	407	742	173	755	0	0	2,905
U. Central Oklahoma	393	5,788 i	132 i	0 i	366 i	126 i	696 i	0 i	0 i	101 i	1 i	4,366 i
Winston-Salem State U.	394	5,781	443	0	2,400	5	554	252	724	0	0	1,403
Lincoln U., Jefferson City	395	5,777	0	0	5,404	150	26	0	92	105	0	0
West Virginia State U.	396	5,775	110	0	5,199	0	357	0	0	0	109	0
C. Charleston	397	5,728	162	1,048	1,128	81	700	42	113	801	67	1,586
Seton Hall U.	398	5,718	0	0	138	0	401	0	0	0	0	5,179
U. Southern Maine	399	5,635	1,190	42	880	0	0	0	2,963	78	27	455
U. Colorado Colorado Springs	400	5,557	1,035	173	845	11	270	226	124	334	1,367	1,172
Southern Connecticut State U.	401	5,413	11	253	1,308	35	846	366	505	202	0	1,887
Bucknell U.	402	5,339 i	189 i	89 i	578 i	399 i	512 i	144 i	112 i	284 i	1,550 i	1,482 i
U. Massachusetts, central office	403	5,225	0	0	545	0	0	0	1,818	1,909	0	953
Reed C.	404	5,155	68	0	1,573	223	886	473	439	0	0	1,493
Des Moines U.	405	5,021	0	197	3,637	0	0	0	561	0	0	626
Williams C.	406	4,924 i	110 i	195 i	686 i	401 i	1,245 i	85 i	827 i	0 i	0 i	1,375 i
Fort Valley State U.	407	4,921	0	0	4,581	184	72	0	0	0	84	0
Amherst C.	408	4,906	25	439	1,064	340	1,534	101	488	0	0	915
Appalachian State U.	409	4,894	336	499	1,879	90	408	344	585	0	0	753
U. of Health Sciences and Pharmacy in St. Louis	410	4,835	0	0	4,835	0	0	0	0	0	0	0
Morehouse C.	411	4,825	1,141	0	120	166	1,517	42	3	1,697	0	139
U. North Carolina, Asheville	412	4,789	310	84	1,559	0	958	18	2	0	1	1,857
CUNY, Graduate Center	413	4,787	0	0	116	23	630	576	2,238	0	30	1,174

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Detroit Mercy	414	4,786	20	0	4,337	140	5	135	0	0	119	30
Texas Southern U.	415	4,782	159	189	2,673	204	661	0	0	0	93	803
U. Wisconsin-Stevens Point	416	4,764	0	226	4,317	0	105	0	5	0	60	51
Smith C.	417	4,685	391	36	1,783	182	321	226	151	5	952	638
Gallaudet U.	418	4,599	486	10	1,239	3	5	988	173	0	0	1,695
U. of the District of Columbia	419	4,590	79	41	2,157	277	0	0	0	0	1,388	648
National Defense U.	420	4,583	0	0	200	0	0	0	2,383	0	0	2,000
Southern U. and A&M C., Agricultural Research and Extension Center	421	4,475	0	0	4,475	0	0	0	0	0	0	0
Haverford C.	422	4,473	101 i	229 i	926 i	127 i	2,581 i	173 i	336 i	0 i	0 i	0
Dakota State U.	423	4,412	4,337	18	48	0	0	0	9	0	0	0
Roseman U. of Health Sciences	424	4,380	0	0	4,380	0	0	0	0	0	0	0
Lamar U.	425	4,327	74	0	285	55	80	0	20	0	1,825	1,988
California State U., Chico	426	4,305	10	395	1,466	57	182	15	426	0	1,120	634
Pace U.	427	4,272	1,043	0	1,166	6	138	16	192	0	516	1,195
Oregon Institute of Technology	428	4,267	37 i	312 i	1,741 i	77 i	0 i	122 i	0 i	0 i	679 i	1,299 i
Stockton U.	429	4,236	6	2,789	195	13	54	1	140	0	0	1,038
Texas A&M U.-Commerce	430	4,166	94	0	924	26	939	374	139	0	48	1,622
CUNY, Lehman C.	431	4,154	476	37	256	271	2,208	1	180	0	0	725
Texas Woman's U.	432	4,135	14	0	2,259	23	204	488	200	50	0	897
Youngstown State U.	433	4,120	6	2	101	6	346	12	32	0	3,491	124
Rutgers, State U. New Jersey, Camden	434	3,950	1,848	0	225	94	354	97	733	0	0	599
U. North Carolina, general administration	435	3,942	1,168	0	222	0	75	0	0	0	2,467	10
U. Central del Caribe	436	3,931	0	0	3,931	0	0	0	0	0	0	0
Fisk U.	437	3,904	93	0	3,585	12	212	0	2	0	0	0
Southern U. and A&M C., Baton Rouge	438	3,849	202	0	338	5	735	0	528	0	1,424	617
U. New Haven	439	3,843	602	143	40	4	285	22	2,107	0	533	107
Hope C.	440	3,822	28	20	636	68	1,315	242	673	0	175	665
South Carolina State U.	441	3,796 i	104 i	0 i	1,367 i	0 i	965 i	0 i	0 i	0 i	687 i	673 i
Albany C. of Pharmacy and Health Sciences	442	3,765	0	0	3,765	0	0	0	0	0	0	0
U. of the Sciences Philadelphia	443	3,761	0	0	3,181	0	580	0	0	0	0	0
Barnard C.	444	3,748	149	60	692	27	885	1,343	293	0	0	299

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Northern Colorado	445	3,738	0	296	1,239	181	122	178	346	0	0	1,376
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	446	3,737	0	0	3,737	0	0	0	0	0	0	0
Carleton C.	447	3,732	111	863	334	196	704	86	464	0	0	974
CUNY, C. Staten Island	448	3,682	66	0	1,277	691	860	342	4	0	294	148
Stephen F. Austin State U.	449	3,672	0	177	1,848	129	36	10	250	0	6	1,216
Franklin and Marshall C.	450	3,623	7	232	578	52	539	68	440	3	0	1,704
Towson U.	451	3,612	603	709	836	179	476	192	264	0	0	353
New York Institute of Technology	452	3,580	188	0	2,757	0	0	0	70	0	458	107
Touro U.	453	3,551	0	0	3,539	0	0	0	0	0	0	12
MGH Institute of Health Professions	454	3,549	0	0	3,014	0	0	0	0	0	0	535
Swarthmore C.	455	3,544	15	0	841	103	734	117	274	89	367	1,004
U. Washington, Tacoma	456	3,504	696	2,089	164	47	0	0	124	0	59	325
SUNY, C. of Optometry	457	3,477	0	0	3,477	0	0	0	0	0	0	0
Trinity U.	458	3,472	50	56	505	84	1,230	328	501	0	80	638
U. Central Arkansas	459	3,455	426	20	785	24	585	93	43	131	0	1,348
U. Illinois, Springfield	460	3,406	0	0	5	0	14	2	2,838	0	0	547
Philadelphia C. of Osteopathic Medicine	461	3,360	0	0	3,360	0	0	0	0	0	0	0
Lewis and Clark C.	462	3,350	32	212	651	174	749	69	20	0	0	1,443
High Tech High Graduate School of Ed.	463	3,304	0	0	0	0	0	0	0	0	0	3,304
St. John's U., New York	464	3,282	9	0	2,324	66	405	126	0	0	0	352
California State U., Maritime Academy	465	3,202	0	0	0	0	0	0	0	0	3,202	0
Milwaukee School of Engineering	466	3,190	0	0	0	0	85	0	0	0	3,105	0
Saint Joseph's U.	467	3,150	136	0	761	6	194	457	194	0	0	1,402
Colorado State U., Pueblo	468	3,104	0	0	1,703	6	18	0	0	0	210	1,167
Texas A&M International U.	469	3,067	80	84	333	1	42	34	59	1,009	71	1,354
St. Cloud State U.	470	3,056	75	217	441	0	15	8	206	7	71	2,016
Murray State U.	471	3,019	0	134	2,475	198	185	1	0	0	0	26
U. Northern Iowa	472	2,970	0	142	306	1	911	0	1,510	0	0	100
Harvey Mudd C.	473	2,916	791	0	520	174	543	0	0	194	628	66
Colgate U.	474	2,913	188	453	478	84	618	74	268	0	0	750
Pomona C.	475	2,855	95	274	338	129	872	248	620	6	0	273

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Austin Peay State U.	476	2,833	0	596	1,333	3	15	3	2	22	0	859
Fayetteville State U.	477	2,797	131	0	1,483	0	260	0	111	0	0	812
U. Wisconsin-La Crosse	478	2,795	68	35	851	112	416	10	1,024	54	0	225
Alfred U.	479	2,780	0	1	52	0	7	0	0	0	2,720	0
Yeshiva U.	480	2,763	0	0	2,477	0	286	0	0	0	0	0
Minnesota State U., Mankato	481	2,754	0	1	548	0	52	59	121	72	1,486	415
Spelman C.	482	2,750	34	0	624	48	713	588	129	0	0	614
Bowdoin C.	483	2,719	84	635	1,196	29	239	180	191	0	0	165
Northwest Indian C.	484	2,708 i	1 i	1,033 i	103 i	0 i	0 i	0 i	1,044 i	0 i	0 i	527 i
Western Carolina U.	485	2,696	0	297	1,128	11	253	0	292	0	371	344
Northern Kentucky U.	486	2,693	13	0	1,007	81	778	437	95	0	0	282
Santa Clara U.	487	2,682	107	0	879	22	487	10	116	0	948	113
U. of St. Thomas (MN)	488	2,679	17	18	514	43	235	210	34	0	976	632
Central Washington U.	489	2,674	58	1,525	449	104	306	1	116	0	61	54
Occidental C.	490	2,657	236	1,086	368	58	414	65	190	240	0	0
U. Nebraska, Kearney	491	2,640	6	5	1,953	8	320	30	104	97	1	116
Christopher Newport U.	492	2,608	0	0	644	7	829	50	148	0	566	364
U. South Carolina, Aiken	493	2,590	0	119	962	0	51	20	6	0	1,331	101
Alabama State U.	494	2,582	0	0	1,989	0	60	0	0	0	533	0
Dillard U.	495	2,523	0	0	1,323	0	975	0	189	0	0	36
Johnson C. Smith U.	496	2,472	11	0	412	0	300	0	0	0	364	1,385
U. Richmond	497	2,469	0	62	765	106	430	316	394	0	0	396
Western Illinois U.	498	2,461	0	18	1,914	1	78	8	199	0	79	164
Grambling State U.	499	2,427	0	0	0	3	852	0	0	0	0	1,572
Skidmore C.	500	2,412	6	632	937	12	363	325	41	0	0	96
CUNY, Baruch C.	501	2,396	46	198	250	325	297	230	897	0	0	153
U. Louisiana, Monroe	502	2,362	0	46	2,104	0	55	0	144	0	0	13
Babson C.	503	2,352	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	2,352 i
Saginaw Valley State U.	504	2,343	7	36	1,229	588	35	11	106	12	277	42
Framingham State U.	505	2,317	0	0	2,060	0	247	10	0	0	0	0
Bates C.	506	2,303	113	119	1,247	16	405	173	161	3	0	66
U. Wisconsin-Superior	507	2,301	0	30	2,026	0	0	0	230	0	9	6

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Houston-Downtown	508	2,299	95	94	46	10	72	0	247	82	36	1,617
Colorado C.	509	2,291	0	96	156	23	75	115	363	0	0	1,463
Eastern Washington U.	510	2,282	0	58	422	15	66	47	1,613	0	0	61
Purdue U., Fort Wayne	511	2,264	0	0	488	69	126	168	22	64	443	884
Davidson C.	512	2,263	0	0	322	142	242	975	161	0	0	421
Southeastern Louisiana U.	513	2,258	29	0	941	0	326	0	264	0	4	694
SUNY, Buffalo State	514	2,253	0	895	929	91	3	40	250	0	0	45
Winthrop U.	515	2,217	0	0	501	0	317	0	371	11	0	1,017
Kean U.	516	2,201	509	301	183	0	39	0	44	0	0	1,125
Pittsburg State U.	517	2,173	0	0	360	0	22	0	132	0	1,659	0
U. San Francisco	518	2,161	60	106	308	25	72	39	397	144	6	1,004
Keck Graduate Institute	519	2,152 i	86 i	0 i	1,578 i	23 i	0 i	0 i	0 i	0 i	336 i	129 i
U. South Florida, Sarasota-Manatee	520	2,150	0	0	162	0	5	158	213	0	0	1,612
CUNY, New York City C. of Technology	521	2,130	177	0	496	409	212	0	6	235	367	228
Hobart and William Smith Colleges	522	2,114	0	148	1,563	83	175	7	31	0	0	107
Suffolk U.	523	2,106	0	28	29	0	100	584	0	28	76	1,261
U. Texas of the Permian Basin	524	2,105	0	0	335	0	24	7	320	36	217	1,166
Tougaloo C.	525	2,102	0	0	1,741	0	361	0	0	0	0	0
Furman U.	526	2,101	45	47	873	0	925	25	164	0	0	22
Kettering U.	527	2,081	22	0	53	2	648	0	0	0	1,046	310
Sul Ross State U.	528	2,068	0	22	1,595	0	0	0	451	0	0	0
California State U., Dominguez Hills	529	2,065	700	13	144	116	556	95	186	0	0	255
Seattle U.	530	2,060	21	42	156	184	165	0	200	0	140	1,152
U. Ana G. Mendez, Gurabo	531	2,049	0	0	779	0	362	0	0	0	884	24
Northeastern Illinois U.	532	2,018	39	50	1,122	53	66	0	48	0	0	640
Mount Holyoke C.	533	2,016	141	0	359	147	496	584	168	0	0	121
U. Texas, Tyler	534	2,007	50	2	1,302	22	33	110	19	0	344	125
Pepperdine U.	535	2,006	0	0	623	32	56	229	213	0	0	853
Erikson Institute	536	1,992	0	0	0	0	0	0	0	0	0	1,992
U. Wisconsin-Green Bay	537	1,982	57 i	90 i	1,114 i	18 i	125 i	34 i	73 i	0 i	338 i	133 i
U. Puerto Rico, Cayey	538	1,974	0	0	1,092	0	203	53	460	166	0	0
Elon U.	539	1,968	36	0	344	0	83	108	274	0	45	1,078

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bowie State U.	540	1,967	682	0	414	0	272	0	0	0	0	599
Northwestern State U. Louisiana	541	1,940	272	0	307	19	0	0	738	0	5	599
Claflin U.	542	1,910	500	37	857	13	258	0	75	0	170	0
U. North Georgia	543	1,905	37	133	91	1	91	10	0	0	0	1,542
Coastal Carolina U.	544	1,903	56	1,690	157	0	0	0	0	0	0	0
Palmer C. of Chiropractic, Davenport	545	1,900	0	0	1,900	0	0	0	0	0	0	0
Liberty U.	546	1,894	0	0	307	2	0	15	5	0	838	727
Morehead State U.	547	1,883	5	16	299	0	0	4	267	0	1,271	21
Hamilton C.	548	1,869	89	15	81	18	208	100	274	0	0	1,084
Pennsylvania State U., Harrisburg	549	1,866	130	5	411	0	0	0	1,178	0	74	68
Mercyhurst U.	550	1,850 i	67 i	42 i	1,350 i	19 i	132 i	23 i	84 i	2 i	0 i	131 i
California State U., Stanislaus	551	1,843	331	1	1,169	194	17	13	44	0	0	74
Savannah State U.	552	1,804	0	728	234	0	50	0	0	153	639	0
Eastern Connecticut State U.	553	1,799	86	101	381	79	0	141	2	267	0	742
Hawaii Pacific U.	554	1,796	86	220	1,248	14	0	0	215	0	13	0
U. Wisconsin-Oshkosh	555	1,777 i	60 i	94 i	989 i	17 i	128 i	35 i	53 i	0 i	312 i	89 i
Macalester C.	556	1,755	140	390	297	138	377	41	182	0	0	190
Pennsylvania State U., Behrend	557	1,743	119	250	21	21	44	11	15	0	1,232	30
Monmouth U.	558	1,729	0	1,621	88	0	19	0	1	0	0	0
Middlebury C.	559	1,720	117	240	615	0	429	245	65	9	0	0
SUNY, C. Brockport	560	1,719	3	353	1,197	5	74	0	81	0	0	6
U. of the Pacific	561	1,713	0	0	982	0	307	0	0	312	89	23
CUNY, system office	562	1,704	215	39	84	0	0	0	0	0	1,132	234
Troy U.	563	1,692	5	49	290	6	1,216	3	20	0	0	103
CUNY, York C.	564	1,691	0	527	494	0	568	0	59	0	0	43
La Sierra U.	565	1,647	0	0	101	0	1	78	0	0	0	1,467
SUNY, Geneseo	566	1,642	0	239	131	41	785	208	124	0	0	114
Connecticut C.	567	1,598	248	0	275	0	350	208	517	0	0	0
Central Connecticut State U.	568	1,572	21	91	131	17	82	8	519	0	120	583
Vassar C.	569	1,568	400	0	197	357	250	221	128	0	0	15
Willamette U.	570	1,546	0	4	181	10	269	126	3	72	0	881
Sonoma State U.	571	1,545	8	571	456	141	203	10	40	29	1	86

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mills C.	572	1,541	0	0	95	16	0	0	18	0	0	1,412
Colby C.	573	1,536	14	193	443	30	391	97	222	0	0	146
SUNY, Oswego	574	1,534	84	73	286	0	314	13	77	528	125	34
Roger Williams U.	575	1,531	0	730	189	30	101	203	2	0	30	246
Northern Michigan U.	576	1,523	0	91	727	0	35	201	109	0	0	360
Lawrence Technological U.	577	1,521	63	0	0	0	6	0	0	0	806	646
Black Hills State U.	578	1,499	480	0	824	19	116	0	0	0	0	60
California State U., Channel Islands	579	1,497	0	0	901	181	39	0	45	233	0	98
Calvin U.	579	1,497 i	239 i	35 i	496 i	31 i	441 i	0 i	98 i	0 i	104 i	53 i
Elizabeth City State U.	581	1,473	112	176	435	287	0	0	0	0	0	463
Indiana State U.	582	1,471	0	120	745	23	160	5	1	10	4	403
U. of the Incarnate Word	583	1,469	0	0	962	148	226	0	0	0	72	61
C. New Jersey	584	1,464	194	0	657	6	366	7	54	0	105	75
U. Puerto Rico, Humacao	585	1,456	0	0	255	1	1,090	101	0	9	0	0
SUNY, C. Plattsburgh	586	1,452	0	824	465	0	126	0	4	0	0	33
Hofstra U.	587	1,445	6	4	575	4	10	15	64	0	299	468
U. Hartford	588	1,436	5	0	101	131	0	0	0	0	1,002	197
National U. of Natural Medicine	589	1,428	0	0	1,428	0	0	0	0	0	0	0
Trinity C., Hartford	589	1,428	4	0	975	68	50	0	163	0	49	119
Franklin W. Olin C. of Engineering	591	1,404	0	0	0	0	0	0	0	0	491	913
U. of Mary Washington	592	1,393	45	97	132	8	62	32	73	0	0	944
Lafayette C.	593	1,390	101	8	94	69	388	155	119	0	251	205
Fort Lewis C.	594	1,370	0	56	297	0	470	0	42	0	505	0
U. Houston-Clear Lake	595	1,363	111	0	347	0	403	145	120	0	2	235
Marshall B. Ketchum U.	596	1,357 i	0 i	0 i	1,357 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Wheaton C., Wheaton	597	1,322	9	130	184	11	150	299	515	0	0	24
U. Wisconsin-Eau Claire	598	1,318	0	8	126	82	814	173	72	0	0	43
West Virginia School of Osteopathic Medicine	599	1,311	0	0	1,303	0	0	0	0	0	0	8
Manhattan C.	600	1,307	0	0	66	147	71	0	64	0	716	243
U. Alaska, Southeast	601	1,264	0	222	574	0	55	0	0	376	30	7
Alaska Pacific U.	602	1,261	0	1,196	38	0	0	0	0	0	0	27
U. Michigan, Flint	603	1,247	11	0	222	0	29	0	14	102	376	493

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Jacksonville State U.	604	1,244	3	0	44	0	0	0	0	0	11	1,186
Fairfield U.	605	1,210	6	1	279	75	153	26	20	7	117	526
Ithaca C.	606	1,199	39	6	459	64	378	7	176	0	0	70
Biola U.	607	1,187 i	42 i	1 i	771 i	11 i	85 i	13 i	40 i	0 i	167 i	57 i
Oberlin C.	608	1,182	144	93	295	4	483	51	77	0	0	35
Fort Hays State U.	609	1,172	0	298	483	0	158	3	10	0	0	220
New England C. of Optometry	610	1,150	0	0	1,150	0	0	0	0	0	0	0
Albion C.	611	1,132	1	84	96	31	422	45	176	11	0	266
Saint John's U., Collegeville	612	1,130 i	25 i	10 i	133 i	16 i	132 i	23 i	192 i	0 i	0 i	599 i
Heidelberg U.	613	1,125	0	1,125	0	0	0	0	0	0	0	0
Niagara U.	614	1,124	0	0	76	9	54	0	22	41	0	922
Doane U.	615	1,123 i	186 i	0 i	601 i	0 i	123 i	0 i	0 i	0 i	1 i	212 i
U. Wisconsin-River Falls	616	1,107	55	0	224	0	330	0	0	0	103	395
U. Wisconsin-Platteville	617	1,104 i	18 i	71 i	396 i	21 i	101 i	28 i	63 i	0 i	145 i	261 i
Providence C.	618	1,092	0	160	422	0	390	70	18	0	0	32
Florida Polytechnic U.	619	1,091	241	0	34	0	76	0	31	0	689	20
New Mexico Highlands U.	620	1,090	134	189	226	0	541	0	0	0	0	0
C. Wooster	621	1,076	112	59	257	104	235	38	18	0	0	253
C. of Saint Benedict	622	1,069 i	51 i	11 i	149 i	17 i	167 i	27 i	65 i	0 i	0 i	582 i
Keene State C.	623	1,063	0	16	967	0	72	0	0	0	8	0
Union C., Schenectady	624	1,062	7	154	60	33	268	0	111	0	204	225
Albany State U.	625	1,060	0	19	654	0	54	0	0	0	3	330
Andrews U.	626	1,033	0	45	15	3	196	0	670	0	41	63
St. Olaf C.	627	1,032	167	38	249	51	106	43	219	0	0	159
Citadel Military C. South Carolina	628	1,012	380	0	109	3	119	32	16	0	34	319
Eastern Kentucky U.	629	1,010	0	4	701	24	95	12	18	0	58	98
U. Minnesota, Morris	630	1,004	72	227	72	42	110	0	18	0	0	463
Lipscomb U.	631	1,000 i	38 i	0 i	643 i	10 i	73 i	12 i	33 i	0 i	139 i	52 i
Rhode Island School of Design	632	975 i	44 i	0 i	476 i	0 i	0 i	0 i	137 i	0 i	0 i	318 i
Saint Michael's C.	633	957	0	0	684	0	167	106	0	0	0	0
Dickinson C.	634	929	0	106	369	9	28	41	81	0	0	295
Emerson C.	635	919	23	0	0	0	0	0	462	0	0	434

TABLE 22

Higher education R&D expenditures, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Gettysburg C.	636	913	3	25	260	5	203	91	226	0	0	100
Kenyon C.	637	908	0	0	534	16	300	29	17	0	0	12
U. Puget Sound	638	895	0	1	379	4	252	5	182	0	0	72
Midwestern State U.	639	891	16	125	602	7	22	5	0	0	25	89
CUNY, Medgar Evers C.	640	882	0	1	487	49	216	0	74	0	0	55
Whitman C.	641	865	0	23	427	0	356	25	34	0	0	0
Bradley U.	642	851	7	0	78	0	81	5	52	0	617	11
Stonehill C.	643	833	0	393	0	0	0	0	0	159	0	281
La Salle U.	644	818	45	0	14	0	0	2	38	0	0	719
Polytechnic U. Puerto Rico	645	813	813	0	0	0	0	0	0	0	0	0
Salish Kootenai C.	646	807	0	0	172	0	222	0	0	0	0	413
Weber State U.	647	676	133	91	71	0	110	0	0	0	22	249
Benedict C.	648	649	98	66	45	44	146	0	0	0	248	2
U. Ana G. Mendez, Carolina	649	647	0	0	258	0	0	2	0	0	387	0
California Lutheran U.	650	630	14	0	316	16	112	24	16	0	0	132
St. Bonaventure U.	651	585	8	0	102	0	50	0	0	47	0	378
Merrimack C.	652	503	0	0	253	0	0	0	0	60	78	112
Dine C.	653	347	0	0	347	0	0	0	0	0	0	0
New Jersey City U.	654	262	24	0	65	47	82	15	0	1	0	28
Columbus State U.	655	261	112	0	38	8	7	0	17	0	0	79

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6. This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form did not collect R&D expenditures by source and detailed field. For R&D expenditures by major field at institutions completing the shorter version of the survey, see table 82.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions	-	37,477,582	40,768,251	40,142,223	39,445,931	37,961,118	37,846,802	38,788,615	40,248,797	41,863,137	44,482,526	46,143,829
Johns Hopkins U.[a]	1	1,737,261	1,884,025	1,857,580	1,898,927	1,950,016	1,992,837	2,104,653	2,178,605	2,251,097	2,482,130	2,682,410
U. Washington, Seattle	2	829,885	948,976	909,652	928,193	909,034	906,768	946,787	952,738	989,221	992,643	1,024,195
U. Michigan, Ann Arbor	3	747,778	820,125	791,729	814,167	742,160	735,447	786,749	829,695	849,123	886,851	884,880
Georgia Institute of Technology	4	372,122	427,867	484,212	522,134	512,015	551,084	568,430	584,891	654,877	716,207	790,518
Columbia U. in the City of New York	5	572,213	645,233	645,573	635,987	608,588	592,545	600,457	647,840	686,338	736,536	762,289
Stanford U.	6	593,016	656,114	636,348	652,472	637,730	675,930	694,693	710,698	711,443	738,957	751,414
U. California, San Diego	7	580,279	636,879	656,891	632,593	599,095	603,343	604,298	641,469	635,888	698,925	727,289
U. Pennsylvania	8	642,180	707,051	669,970	636,589	620,396	611,620	655,791	669,911	688,313	717,359	721,308
Duke U.	9	514,084	585,262	587,268	581,695	557,969	559,217	575,521	623,573	645,259	709,705	707,746
U. North Carolina, Chapel Hill	10	545,993	600,843	606,348	623,237	610,664	585,758	632,426	676,282	701,169	720,613	706,145
U. Pittsburgh, Pittsburgh	11	594,675	662,471	637,857	622,232	582,136	561,210	580,650	617,884	649,166	677,559	689,273
U. Maryland[b]	12	na	na	na	na	na	na	na	na	na	696,880	689,125
U. California, San Francisco	13	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331
U. California, Los Angeles	14	538,521	563,560	539,054	501,368	465,170	489,404	487,869	487,846	576,076	600,714	655,030
Pennsylvania State U., University Park and Hershey Medical Center	15	464,750	468,705	531,421	558,871	520,574	513,410	538,938	538,164	565,348	600,489	638,930
U. Wisconsin-Madison	16	545,189	593,633	580,661	555,875	548,388	533,286	567,132	570,796	574,048	608,925	632,558
Harvard U.	17	474,899	543,097	589,860	594,392	572,918	545,202	558,611	573,157	587,584	618,405	605,603
Yale U.	18	475,794	519,844	518,184	503,227	480,384	477,143	503,221	541,608	552,242	576,776	585,170
U. Southern California	19	408,564	453,283	443,842	437,813	431,430	421,227	409,516	450,204	501,893	543,607	562,120
Cornell U.	20	448,085	476,583	472,673	445,116	439,770	446,360	430,987	438,182	470,020	525,182	562,021
Washington U., Saint Louis	21	468,642	469,490	441,406	411,299	419,122	432,228	442,335	474,446	506,006	543,508	559,882
Ohio State U.	22	399,942	493,130	445,635	456,590	454,484	446,048	454,834	464,311	474,994	497,651	539,359
Northwestern U.	23	360,980	399,719	393,074	396,138	391,946	393,186	432,413	446,609	469,525	502,300	531,654
Texas A&M U., College Station and Health Science Center	24	288,173	291,812	269,460	314,104	311,920	304,437	293,551	307,656	333,768	359,609	517,489
Vanderbilt U. and Vanderbilt U. Medical Center	25	397,656	458,173	448,948	445,044	422,448	401,738	405,589	452,885	471,625	492,808	514,299
U. Minnesota, Twin Cities	26	426,359	489,480	485,462	494,206	489,767	476,029	469,260	456,443	464,300	494,549	514,092
U. Texas, Austin	27	350,308	355,437	354,873	372,633	332,758	346,215	357,309	396,447	405,131	407,981	500,409
Massachusetts Institute of Technology	28	457,575	489,080	496,132	490,809	483,891	488,421	503,858	487,434	479,654	489,345	488,741
Icahn School of Medicine at Mount Sinai	29	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452
Emory U.	30	336,986	369,982	361,165	365,121	330,378	348,071	361,288	382,177	393,647	424,461	452,636
New York U.	31	260,463	302,221	316,208	300,730	330,484	344,570	350,355	391,144	416,143	436,850	448,850
U. Colorado Boulder	32	292,030	323,078	330,089	319,869	314,890	353,341	371,995	374,209	391,817	412,691	427,869
U. Alabama, Birmingham	33	325,103	344,164	306,210	290,082	280,333	328,531	348,632	358,916	373,360	398,403	400,110

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Florida	34	279,649	306,349	305,067	296,199	289,327	287,230	307,140	327,288	355,517	387,906	397,202
U. Illinois, Urbana-Champaign	35	303,852	323,454	359,989	468,798	343,275	338,178	335,056	358,905	353,710	382,206	387,853
U. California, Davis	36	332,325	362,976	358,577	347,038	330,367	326,039	339,209	342,407	360,018	374,707	380,965
Case Western Reserve U.	37	333,689	353,470	359,000	349,487	329,320	308,434	321,214	326,643	349,177	357,549	357,589
U. Chicago	38	352,728	372,288	336,125	300,718	281,464	294,437	297,953	308,002	303,175	332,776	352,447
U. California, Berkeley	39	312,789	336,191	338,759	311,809	313,390	346,262	341,807	330,339	329,464	347,601	349,989
U. Colorado Denver and Anschutz Medical Campus	40	285,126	307,395	315,685	296,932	285,017	274,345	298,960	311,720	331,945	353,021	348,724
Indiana U., Bloomington	41	71,208	74,143	79,727	85,852	84,592	210,899	221,801	245,155	249,243	308,586	343,876
Boston U.	42	302,411	305,476	275,319	267,194	257,017	259,736	253,475	259,832	284,888	318,511	339,172
Michigan State U.	43	214,134	240,837	268,952	260,610	261,826	272,838	310,225	343,751	328,618	331,148	329,748
U. Arizona	44	308,157	327,565	331,578	338,790	290,370	269,959	262,989	273,567	291,767	327,025	328,807
Oregon Health and Science U.	45	247,054	268,777	242,337	246,491	247,740	245,509	232,688	245,199	264,492	298,227	321,572
California Institute of Technology	46	328,522	342,945	326,701	282,823	279,515	272,673	265,206	277,358	280,451	287,198	316,519
Baylor C. of Medicine	47	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101
U. Utah	48	227,021	264,234	273,150	301,045	288,514	274,375	233,652	248,908	307,844	302,585	314,023
Rutgers, State U. New Jersey, New Brunswick	49	224,894	239,908	279,161	295,028	360,157	323,675	321,432	340,801	350,912	297,609	311,743
U. Virginia, Charlottesville	50	228,917	252,928	240,254	225,567	205,865	203,401	210,980	228,910	250,168	276,335	300,348
U. Rochester	51	322,048	337,907	308,115	299,553	266,767	262,681	266,322	267,860	285,330	306,551	296,241
Colorado State U., Fort Collins	52	211,297	236,566	252,286	219,856	212,054	219,321	232,108	239,165	268,747	284,482	287,100
U. Cincinnati	53	262,513	287,182	267,691	258,460	245,086	251,717	231,817	242,237	250,202	252,892	285,899
Arizona State U.	54	172,202	185,766	194,376	201,363	196,270	196,528	212,396	227,621	254,384	267,087	278,150
Purdue U., West Lafayette	55	232,564	259,948	270,655	271,504	236,860	217,330	229,093	245,110	251,517	249,831	270,605
U. Iowa	56	282,465	283,627	269,734	255,329	235,527	225,587	237,743	238,842	246,117	252,563	259,639
Scripps Research Institute	57	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502
U. Texas Southwestern Medical Center	58	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679
Utah State U.	59	90,581	113,871	108,501	106,985	114,959	120,369	125,661	138,518	159,447	220,504	242,156
U. California, Irvine	60	194,559	209,117	206,985	198,730	182,585	174,875	177,779	187,535	201,173	217,094	241,734
Uniformed Services U. of the Health Sciences	61	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202
North Carolina State U.	62	139,096	155,293	174,758	177,118	181,449	199,862	202,336	218,274	219,258	228,945	232,110
U. Miami	63	197,824	225,352	224,172	205,870	203,751	193,606	195,328	194,385	192,598	212,023	224,184
U. Illinois, Chicago	64	232,380	248,936	246,128	222,566	203,733	196,010	187,990	198,049	196,840	208,603	223,030
Carnegie Mellon U.	65	179,386	200,967	209,522	215,560	198,247	187,259	190,620	189,974	181,958	197,978	217,625
Virginia Polytechnic Institute and State U.	66	162,566	189,198	184,175	201,646	204,308	196,096	195,859	186,054	199,897	209,607	210,792
Albert Einstein C. of Medicine	67	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635
Princeton U.	68	150,261	163,438	161,591	156,541	164,277	158,313	162,003	176,029	180,305	193,453	203,259
U. Kentucky	69	171,528	179,161	159,678	150,468	142,312	146,548	154,559	171,323	171,672	192,945	200,664

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
SUNY, U. Buffalo	70	167,099	182,585	193,613	204,995	189,209	177,441	182,883	186,836	186,494	182,983	200,155
U. Massachusetts, Medical School	71	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938
Woods Hole Oceanographic Institution	72	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186
U. Texas M. D. Anderson Cancer Center	73	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488
Brown U.	74	127,087	128,628	131,994	126,559	129,248	132,142	136,931	145,556	164,452	178,460	185,676
U. Kansas	75	147,598	162,721	171,043	174,021	165,442	155,835	140,002	148,178	155,147	169,694	185,007
U. Oklahoma, Norman and Health Science Center	76	105,366	118,970	133,841	132,456	118,925	127,709	134,772	133,177	149,317	164,855	183,728
U. Georgia	77	119,486	137,255	137,710	131,824	126,164	132,118	143,886	158,229	148,543	159,948	171,351
Oregon State U.	78	135,886	146,882	156,446	149,396	145,247	153,017	158,142	163,479	171,805	168,571	167,494
Wake Forest U.	79	159,084	173,130	172,779	156,506	153,069	148,451	141,052	148,001	154,363	165,702	166,596
Iowa State U.	80	109,461	117,522	118,242	121,993	116,273	114,518	125,397	128,221	147,679	147,866	165,912
U. Connecticut	81	132,169	144,280	153,264	148,651	144,104	137,980	146,390	145,637	144,048	159,220	164,848
U. Hawaii, Manoa	82	196,275	201,700	193,722	225,359	206,810	200,202	190,336	182,337	167,030	167,816	163,694
Florida State U.	83	134,794	140,850	140,419	148,413	151,701	139,597	126,289	134,278	147,184	149,784	162,296
U. New Mexico	84	148,216	162,854	160,895	158,057	153,889	154,794	159,280	165,128	169,952	159,940	161,627
U. South Florida, Tampa	85	243,017	243,030	236,148	225,414	222,790	218,338	228,365	250,384	179,024	181,882	158,958
George Washington U.	86	122,357	116,611	112,110	120,857	141,552	139,016	142,889	148,369	156,768	155,697	157,533
U. Missouri, Columbia	87	116,965	116,403	114,345	111,510	104,910	105,015	126,071	134,525	138,029	139,781	156,190
Washington State U.	88	113,452	123,502	129,255	134,329	126,955	134,889	136,646	152,843	151,133	158,982	154,623
Temple U.	89	79,939	89,719	90,243	131,872	126,803	129,499	140,775	153,404	155,312	161,673	154,600
U. Dayton	90	73,540	70,996	65,169	67,698	66,318	77,973	100,955	118,452	132,358	153,328	154,101
Medical U. South Carolina	91	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802
Virginia Commonwealth U.	92	144,138	153,228	142,053	135,804	138,559	142,447	143,701	147,585	140,363	142,293	152,751
Tufts U.	93	116,699	122,208	121,512	113,450	116,204	121,428	126,109	139,532	139,334	146,630	148,320
SUNY, Stony Brook U.	94	120,146	125,102	123,383	118,513	111,683	115,150	118,549	125,688	136,241	144,618	146,478
U. Delaware	95	105,454	118,673	117,072	119,756	116,340	114,245	113,217	117,813	118,573	133,020	144,142
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	118,271	131,583	147,421	155,209	145,498	146,233	139,090	137,448	140,399	154,597	142,219
U. Tennessee, Knoxville[c]	97	96,972	111,942	112,471	117,836	112,201	105,417	109,722	117,097	117,776	123,434	138,402
Northeastern U.	98	59,074	67,938	77,667	85,170	79,666	80,576	81,124	93,572	114,711	126,762	136,273
U. Texas Health Science Center, Houston	99	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624
Medical C. Wisconsin	100	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783
U. California, Santa Barbara	101	129,457	136,244	136,352	132,960	121,045	116,232	116,775	117,457	113,388	118,517	123,198
Mississippi State U.	102	106,324	98,998	96,689	74,075	71,715	80,097	87,277	87,928	89,012	104,738	120,616
U. Massachusetts, Amherst	103	97,937	107,683	115,280	111,448	110,189	103,417	106,269	108,871	110,654	117,359	116,170
U. Central Florida	104	69,331	69,098	78,411	76,533	70,716	88,814	87,417	89,904	97,539	99,310	114,575

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas Medical Branch	105	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103
Wayne State U.	106	132,166	134,735	126,915	119,520	113,618	109,586	111,532	109,421	111,018	118,043	113,137
U. Nebraska, Lincoln	107	98,417	108,059	106,725	100,592	94,265	95,831	95,426	101,532	103,565	109,954	107,299
Tulane U.	108	106,872	111,007	101,360	97,994	94,486	84,166	89,087	93,970	102,201	104,219	107,290
U. Nebraska, Medical Center	109	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158
U. Alabama, Huntsville	110	73,075	72,665	78,528	85,738	75,343	67,451	69,824	68,609	74,650	85,211	104,288
George Mason U.	111	63,011	65,301	63,786	65,096	61,877	63,600	58,864	57,345	69,481	96,307	104,070
U. Notre Dame	112	62,152	79,716	83,295	79,564	79,690	83,710	87,129	91,787	96,182	106,411	104,030
Florida International U.	113	62,580	65,446	69,402	72,357	78,961	76,528	76,127	71,579	85,541	96,912	103,366
U. Texas Health Science Center, San Antonio	114	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959
U. Alaska, Fairbanks	115	99,657	105,469	99,674	94,953	85,904	81,586	89,940	97,314	94,998	92,964	101,414
U. New Hampshire	116	84,553	106,806	119,451	102,053	101,125	92,040	93,599	92,338	95,807	90,241	100,373
Georgetown U.	117	120,589	123,540	115,197	114,760	100,475	88,015	83,827	94,435	89,977	94,050	98,682
U. Vermont	118	98,635	101,471	87,843	85,118	79,743	83,733	83,124	78,394	86,940	90,405	97,981
U. South Carolina, Columbia	119	125,501	103,296	98,836	91,612	91,890	90,453	93,885	96,048	88,602	102,992	97,143
Montana State U., Bozeman	120	93,100	87,528	86,511	73,619	72,777	69,136	68,471	74,788	75,524	88,955	93,759
U. California, Riverside	121	63,127	62,312	63,821	59,065	57,397	63,515	70,489	76,795	77,314	81,151	92,503
Rice U.	122	69,395	78,730	76,964	80,075	73,965	74,266	83,273	84,469	78,175	83,584	88,768
U. Louisville	123	93,260	96,010	89,976	78,144	65,849	68,345	72,644	72,119	80,511	87,563	88,251
Louisiana State U., Baton Rouge	124	97,407	97,517	92,551	94,563	94,701	83,644	86,754	81,644	84,309	88,721	87,895
Rockefeller U.	125	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280
New Jersey Institute of Technology	126	50,051	54,250	59,398	57,466	54,655	55,094	67,490	79,397	91,999	89,846	85,746
Drexel U.	127	77,438	83,702	87,860	76,343	77,684	69,462	67,020	70,921	82,777	85,278	82,576
U. Mississippi	128	71,475	74,918	74,955	64,590	64,218	59,978	64,510	62,483	63,736	73,865	82,361
Clemson U.	129	62,934	52,919	51,764	52,002	49,887	53,136	60,165	70,256	73,735	81,080	82,203
U. Oregon	130	76,378	84,997	86,316	75,423	74,603	69,723	66,850	69,598	71,568	80,083	81,278
West Virginia U.	131	79,415	88,419	82,149	74,704	69,165	68,731	72,751	72,767	76,527	82,353	79,657
Kansas State U.	132	68,560	76,953	77,689	70,167	67,438	69,918	71,224	75,468	80,436	81,269	79,100
Georgia State U.	133	27,073	28,210	34,075	37,521	42,259	50,122	52,351	71,248	71,650	70,185	78,199
U. California, Santa Cruz	134	84,518	97,817	94,222	91,002	90,858	92,870	95,294	66,563	63,197	74,669	76,468
Thomas Jefferson U.	135	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,676
Auburn U., Auburn	136	53,971	59,559	55,557	57,253	50,088	48,352	54,751	55,700	58,488	64,333	73,468
U. Houston	137	52,920	59,580	55,812	61,038	58,954	58,458	62,703	60,033	63,801	68,523	71,779
U. Arkansas for Medical Sciences	138	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508
U. Rhode Island	139	62,981	78,303	83,754	74,870	65,715	64,711	61,641	62,785	64,026	73,080	67,242
SUNY, U. Albany	140	124,324	125,189	112,989	114,158	105,333	79,681	77,734	85,469	87,451	92,709	67,039

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Rush U.	141	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343
U. Nevada, Reno	142	58,115	57,220	55,437	56,900	53,363	51,724	53,371	54,782	62,635	62,903	64,793
Cold Spring Harbor Laboratory	143	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,215
U. Montana, Missoula	144	40,760	38,565	35,984	34,021	30,319	33,718	38,753	44,534	54,708	55,566	62,067
New Mexico State U.	145	98,399	90,598	90,722	86,806	80,599	78,903	62,292	59,885	54,009	58,022	60,971
U. Maryland, Baltimore County	146	59,448	61,172	45,014	44,662	47,538	47,954	50,984	52,014	53,522	56,993	59,391
U. Wyoming	147	45,323	48,932	57,441	53,971	42,280	48,970	63,951	56,410	42,595	52,082	57,353
U. Texas, Dallas	148	30,754	33,216	35,297	33,920	32,699	31,068	35,451	36,097	40,046	48,466	55,983
Augusta U.	149	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797
Colorado School of Mines	150	29,892	33,789	33,481	32,399	34,781	34,266	35,677	37,505	40,161	49,603	55,560
U. Maine	151	50,163	59,800	39,661	34,252	50,589	35,369	34,277	37,321	45,348	51,049	54,376
Cleveland State U.	152	25,024	42,575	46,645	50,243	44,233	41,851	49,925	52,541	55,468	51,475	53,756
Wichita State U.	153	13,751	20,569	19,078	13,434	10,424	7,728	10,442	21,685	18,706	29,634	53,540
Rensselaer Polytechnic Institute	154	54,847	59,284	62,341	60,870	59,070	59,528	52,163	51,130	50,120	50,448	52,150
Naval Postgraduate School	155	93,605	94,278	127,049	91,134	96,573	78,780	56,045	47,082	44,140	54,358	51,870
U. Idaho	156	46,303	54,243	55,115	53,986	50,638	50,559	51,295	50,935	51,172	51,529	51,450
U. Tennessee, Health Science Center	157	52,652	51,842	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264
U. Arkansas, Fayetteville	158	33,674	37,587	34,189	30,625	26,111	34,288	40,642	46,490	52,937	50,875	47,454
U. Texas, Arlington	159	31,628	30,659	33,150	30,815	24,857	27,712	26,664	33,111	36,027	41,764	44,950
U. North Dakota	160	52,504	54,058	54,476	46,491	40,340	37,697	42,425	43,262	51,050	49,700	44,153
U. Alabama, Tuscaloosa	161	26,364	32,999	33,023	28,375	26,161	28,988	28,425	27,692	30,447	37,916	43,017
U. Southern Mississippi	162	37,054	40,984	37,524	28,694	26,163	25,005	25,482	27,661	31,815	46,924	42,870
Brandeis U.	163	43,669	48,235	44,532	45,337	47,532	47,841	48,273	46,108	38,632	41,475	41,440
U. Massachusetts, Lowell	164	25,550	27,960	26,786	27,360	28,654	31,059	27,694	29,471	30,086	35,309	41,304
San Diego State U.	165	56,504	64,056	56,797	51,274	50,542	46,870	44,495	39,417	39,453	39,515	41,117
U. Louisiana, Lafayette	166	12,881	14,659	13,848	11,090	10,666	15,799	16,893	23,895	28,874	34,400	40,044
Oklahoma State U., Stillwater	167	56,998	81,855	85,876	44,200	36,687	38,585	42,976	44,977	43,421	39,880	39,873
Northern Arizona U.	168	15,070	17,765	16,015	15,638	18,209	20,285	23,442	26,035	29,648	35,980	39,387
U. Texas, El Paso	169	34,617	35,399	40,024	38,253	35,304	41,897	42,423	44,811	44,352	41,261	39,126
Michigan Technological U.	170	27,676	32,724	33,189	32,086	30,588	28,692	29,774	28,483	32,606	34,709	36,172
Wright State U.	171	24,785	27,422	25,552	26,888	27,838	26,931	30,162	35,533	43,644	41,428	35,321
Saint Louis U.	172	33,728	38,323	35,873	31,645	30,071	27,580	26,813	27,436	28,121	34,275	34,419
U. Texas, San Antonio	173	28,717	31,972	32,672	29,078	23,066	23,511	25,813	29,947	29,824	34,588	34,334
San Jose State U.	174	24,292	26,389	24,153	27,780	32,901	33,782	31,318	31,396	33,886	35,143	34,102
U.S. Air Force Academy	175	49,711	62,118	43,431	45,169	34,669	30,637	46,958	40,062	27,973	35,294	33,554
Stevens Institute of Technology	176	29,370	32,570	27,420	24,812	23,656	25,980	28,999	26,855	26,281	28,342	33,461

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Florida A&M U.	177	45,856	44,905	42,937	39,675	36,570	36,975	37,363	30,383	32,422	35,362	33,136
Syracuse U.	178	33,796	33,850	33,156	27,729	29,404	32,378	36,106	39,781	39,538	37,803	31,861
Indiana U.-Purdue U., Indianapolis	179	148,672	156,607	166,825	152,578	143,386	18,479	19,954	20,035	22,834	27,349	31,622
North Dakota State U.	180	51,883	53,451	46,490	38,453	36,277	35,482	35,590	34,923	35,122	35,322	31,614
Mercer U.	181	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572
Texas Tech U.	182	35,970	35,191	29,969	28,827	33,137	32,987	32,405	31,347	31,357	35,136	31,475
Louisiana State U., Health Sciences Center, New Orleans	183	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381
Portland State U.	184	36,996	41,580	42,662	40,377	33,523	29,987	32,021	32,727	31,234	33,055	31,315
Boston C.	185	33,290	31,953	30,855	27,975	25,115	23,352	27,033	30,448	30,541	32,475	31,038
William & Mary	186	27,685	30,361	32,526	31,628	33,320	33,129	34,133	32,760	33,503	31,983	30,436
Old Dominion U.	187	34,687	39,534	38,555	39,963	41,270	40,002	39,743	42,412	32,584	31,355	30,330
CUNY, City C.	188	32,900	40,595	39,572	40,094	40,095	38,434	37,525	35,429	36,866	33,065	30,106
Howard U.	189	33,017	36,060	37,690	33,966	32,663	38,820	33,441	34,762	33,602	29,978	29,256
U. Nevada, Las Vegas	190	32,441	30,457	25,068	24,502	26,950	27,493	25,613	29,172	33,727	28,381	29,252
Rochester Institute of Technology	191	23,254	20,396	19,394	18,379	19,465	20,147	26,149	27,311	25,990	26,359	28,092
SUNY, Polytechnic Institute	192	na	na	na	na	21,208	14,641	21,380	41,252	41,795	38,245	27,998
U. Toledo	193	38,389	44,881	41,072	40,497	34,684	27,085	27,802	24,167	25,323	28,273	27,770
U. North Carolina, Charlotte	194	17,284	15,930	19,230	20,994	19,069	19,132	20,269	20,462	22,386	26,199	27,618
U. Massachusetts, Boston	195	24,527	26,958	33,275	24,924	27,715	28,653	30,608	29,934	30,412	25,083	27,575
U. Puerto Rico, Medical Sciences Campus	196	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033
Texas State U.	197	8,904	10,319	11,950	14,908	14,243	18,289	21,049	25,132	30,314	29,614	26,950
Boise State U.	198	14,614	18,811	20,070	16,117	15,746	18,296	16,953	19,806	24,918	24,493	26,914
Lehigh U.	199	23,721	22,390	23,312	24,831	24,271	22,910	21,429	25,228	25,834	26,554	26,816
SUNY, Downstate Medical Center	200	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454
Worcester Polytechnic Institute	201	13,582	15,714	12,968	17,003	19,643	26,327	25,976	19,566	18,635	22,964	26,074
CUNY, Hunter C.	202	18,498	22,901	24,265	22,512	19,268	19,193	20,037	18,705	21,766	23,485	26,025
U. North Texas, Health Science Center	203	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917
U. Wisconsin-Milwaukee	204	29,042	30,479	28,862	26,450	25,377	25,587	25,651	23,916	24,612	23,342	25,354
U. Denver	205	13,364	14,042	11,779	15,089	14,202	12,048	11,029	11,648	15,713	22,012	24,753
Brigham Young U., Provo	206	22,115	24,273	22,069	23,639	24,490	24,250	28,453	26,441	23,892	23,901	24,632
SUNY, Binghamton U.	207	20,979	21,244	21,162	17,715	14,843	16,171	18,562	20,639	23,392	24,213	24,564
Illinois Institute of Technology	208	28,349	34,858	27,767	28,319	25,679	25,826	23,821	26,330	28,265	28,827	24,244
Loyola U., Chicago	209	28,995	28,633	28,530	33,074	31,189	28,200	25,363	23,324	21,994	23,562	24,018
SUNY, Upstate Medical U.	210	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940
Florida Atlantic U.	211	17,268	15,579	17,226	13,555	13,234	11,574	15,356	17,172	18,771	21,667	23,695

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Nebraska, central administration	212	ne	ne	ne	ne	ne	ne	ne	ne	13,200	18,523	23,104
New Mexico Institute of Mining and Technology	213	42,243	37,316	29,894	23,581	33,245	20,018	17,017	18,358	19,560	22,864	22,922
Missouri U. of Science and Technology	214	28,239	27,961	23,731	25,571	21,811	17,632	18,833	19,567	21,835	22,426	22,860
Air Force Institute of Technology	215	15,474	20,196	19,579	18,739	16,782	16,727	19,796	25,588	23,393	21,856	22,854
South Dakota State U.	216	38,368	41,904	41,975	33,231	29,524	28,670	29,633	28,003	27,129	29,683	22,531
Catholic U. of America	217	15,878	19,890	17,608	17,310	17,205	19,900	19,928	19,857	20,749	21,642	22,503
Morehouse School of Medicine	218	25,855 i	28,128	31,786	34,511	33,020	30,012	28,678	28,792	24,326	22,461	22,500
North Carolina Agricultural and Technical State U.	219	23,883	22,652	22,477	21,663	23,373	22,413	21,112	24,496	24,874	23,863	22,338
U. Missouri, Kansas City	220	16,391	18,988	17,522	15,774	15,178	13,327	13,081	11,296	10,596	18,624	22,320
U. South Alabama	221	14,730	16,758	13,816	13,743	14,353	15,106	17,628	16,627	15,098	19,947	21,825
U. North Carolina, Greensboro	222	19,477	20,868	16,530	13,658	13,489	14,978	17,902	17,354	17,016	18,923	20,447
East Carolina U.	223	16,113	19,675	17,838	18,227	17,409	15,079	13,073	11,526	12,611	17,428	20,168
U. California, Merced	224	9,392	10,140	11,052	10,983	10,509	12,648	12,206	14,923	14,385	16,850	20,000
Van Andel Research Institute	225	ne	ne	ne	ne	ne	8,138	11,970	13,108	14,285	18,259	18,538
U. Memphis	226	20,654	20,348	22,142	18,619	21,898	18,825	18,098	18,185	25,166	18,370	18,063
Southern Methodist U.	227	13,312	18,502	16,640	14,274	20,611	14,324	15,587	14,464	13,439	17,869	17,752
Loma Linda U.	228	29,284	32,187	24,884	26,253	19,088	21,082	16,118	15,192	15,790 i	16,909 i	17,457 i
California State U., Northridge	229	17,213	19,769	24,837	7,906	11,309	12,060	13,442	14,756	15,892	16,939	17,261
San Francisco State U.	230	15,601	17,337	17,075	19,024	17,129	14,336	12,804	14,817	14,388	15,675	16,331 i
Rutgers, State U. New Jersey, Newark	231	12,631	18,226	20,588	16,295	12,520	12,611	13,737	16,617	17,516	15,397	16,196
American U.	232	8,841	9,208	7,515	10,421	9,427	9,449	9,554	8,800	13,013	15,229	16,123
U. Puerto Rico, Mayaguez	233	12,735	18,568	19,949	14,414	14,162	15,700	14,446	13,604	14,111	15,653	15,842
Desert Research Institute	234	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791
Eastern Virginia Medical School	235	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748
Rowan U.	236	2,062	2,108	2,349	1,926	4,591	4,674	5,252	7,110	9,602	12,064	15,551
Ohio U.	237	18,466	23,051	20,780	20,203	16,597	17,303	14,678	16,393	13,961	14,802	15,543
U. Maryland Center for Environmental Science	238	12,123	18,007	16,081	16,852	13,202	14,096	13,957	15,069	15,008	17,476	15,498
U. Alaska, Anchorage	239	9,368	9,858	10,760	9,686	7,824	8,575	11,867	12,681	13,597	14,219	15,290
Tuskegee U.	240	12,309	12,397	12,633	16,789	14,145	12,267 i	10,388	10,388	10,388	14,825	15,122
Kent State U.	241	14,586	15,085	14,882	11,506	11,181	11,158	10,013	10,524	11,118	13,350	15,004
Morgan State U.	242	10,039	9,884	15,408	13,357	14,144	12,805	14,343	13,328	11,603	11,952	14,101
U. Puerto Rico, Rio Piedras	243	21,717	24,887	25,407	17,946	18,262	18,922	15,892	11,512	10,028	13,943	14,071
Jackson State U.	244	39,457	43,001	39,511	29,700	21,677	19,656	20,854	20,136	17,385	16,259	13,662
U. North Texas, Denton	245	14,444	14,754	18,043	16,515	16,318	15,470	12,621	15,668	19,026	17,345	13,653
U. Hawaii, system office	246	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367
Texas A&M U.-Corpus Christi	247	7,869	7,506	5,446	6,129	7,176	9,491	8,669	10,259	12,815	14,451	13,349

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Marquette U.	248	9,381	11,291	9,968	8,756	8,191	9,320	10,298	10,111	10,672	12,792	13,187
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	19,738	18,736	14,378	12,322	11,334	11,869	12,287	10,565	10,828	14,399	13,187
U. Texas Rio Grande Valley	250	na	na	na	na	na	na	16,892	14,808	13,330	13,629	13,093
Texas Tech U., Health Sciences Center	251	12,950	14,790	13,944	14,820	9,853	10,251	10,384	9,143	7,546	11,345	13,043
U. South Dakota	252	16,467	14,490	14,088	15,274	12,162	9,214	8,832	11,134	12,523	13,367	13,034
Albany Medical C.	253	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940
North Carolina Central U.	254	6,870	9,496	11,076	8,253	9,757	10,874	10,455	11,977	12,947	13,503	12,787
Southern Illinois U., Carbondale	255	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735
CUNY, Queens C.	256	13,642	15,573	14,897	15,443	16,460	14,080	14,275	11,884	12,390	13,457	12,726
Delaware State U.	257	10,154	12,822	11,305	11,837	12,464	12,091	15,260	14,693	13,007	12,179	12,689 i
U.S. Naval Academy	258	10,750	10,243	9,322	10,482	10,416	8,978	11,016	12,963	13,331	12,991	12,577
Meharry Medical C.	259	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573
U. West Florida	260	11,038	13,156	12,858	12,927	11,593	10,935	9,841	10,127	8,634	11,506	12,369
Missouri State U.	261	6,071	4,764	3,697	3,132	3,132	3,165	2,675	2,770	3,995	5,076	12,310
New York Medical C.	262	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000	8,141	11,061	12,106
California State U., Long Beach	263	12,731	12,055 i	11,379 i	10,701	7,879	6,198	11,176	13,085	14,021	13,579	12,014
U. of the Virgin Islands	264	28,369	16,338	22,605	15,627	14,992	19,456	20,951	10,968	10,852	10,445	11,787
U. Baltimore	265	1,812	3,288	3,386	2,906	2,947	2,998	3,769	4,289	7,431	9,103	11,748
California State U., San Marcos	266	4,106	4,827 i	5,548 i	6,271	6,091	4,573	5,273	5,594	7,497	9,134	11,547
Embry-Riddle Aeronautical U.	267	8,241	11,444	14,048	11,456	13,030	10,049	14,135	10,525	12,661	8,970	11,542
Louisiana State U., Health Sciences Center, Shreveport	268	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452
Hampton U.	269	14,455	12,292	15,356	12,620	11,153	14,735	14,201	16,249	14,170	13,390	11,278
Ponce Health Sciences U.	270	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228
Marshall U.	271	18,218	21,852	13,154	13,472	12,712	11,154	9,158	9,064	8,584	9,617	11,078
Florida Institute of Technology	272	9,175	7,637	7,500	7,543	8,581	8,315	9,500	8,465	8,511	10,352	10,999
Northeast Ohio Medical U.	273	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684
South Dakota School of Mines and Technology	274	25,172	28,105	14,480	7,853	7,078	9,286	10,370	10,639	10,240	9,283	10,659
U. Akron	275	12,107	12,962	16,768	19,658	20,263	14,676	25,433	16,395	12,470	11,796	10,574
Miami U.	276	13,591	13,210	13,418	12,676	12,048	10,008	9,189	9,093	9,627	9,755	10,473
Nova Southeastern U.	277	5,718	6,904	6,653	5,379	5,992	5,896	7,381	7,979	7,853	8,965	10,452
California Polytechnic State U., San Luis Obispo	278	11,637	8,658	10,125	10,280	9,087	9,796	11,276	10,535	9,613	9,720	10,178
U. Nebraska, Omaha	279	6,014	6,333	5,980	5,693	5,687	6,066	7,180	7,486	7,939	8,807	9,996
Charles R. Drew U. of Medicine and Science	280	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863
U. Guam	281	4,962	5,391	5,448	5,554	6,599	5,586	6,621	8,067	8,597	9,339	9,722

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Xavier U. Louisiana	282	5,669	6,673	7,177	5,856	7,078	7,735	10,503	10,939	10,165	8,679	9,680
Texas A&M U.-Kingsville	283	7,088	6,280	6,480	7,002	8,678	7,080	7,475	7,869	7,459	8,419	9,610
Prairie View A&M U.	284	8,623	11,058	10,569	9,077	8,278	7,994	7,952	8,722	8,421	9,346	9,249
CUNY, Advanced Science Research Center	285	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208
Langston U.	286	3,313	3,778	3,957	4,153	5,816	5,621	9,178	8,326 i	7,474 i	6,622	9,004
Baylor U.	287	2,947	3,704	3,513	3,510	4,062	3,878	4,244	5,265	5,782	6,955	8,851
CUNY, Graduate School of Public Health and Health Policy	288	na	na	na	na	na	na	na	na	5,080	5,572	8,722
Illinois State U.	289	5,442	4,586	3,833	3,902	5,213	4,424	5,630	5,355	6,312	9,827	8,719
Tennessee State U.	290	7,414	8,369	10,240	9,872	12,016	11,145	12,291	10,557	10,291	8,962	8,707
Rosalind Franklin U. of Medicine and Science	291	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504
U.S. Military Academy	292	22,146	13,799	12,227	11,630	14,819	15,312	13,500	13,430	13,393	10,528	8,406
California State U., Los Angeles	293	7,234	8,426	6,847	7,065	4,923	4,291	3,804	6,612	8,586	9,288	8,380
U. Maryland, Eastern Shore	294	8,583	8,587	6,965	8,511	8,902	9,284	7,853	7,265	4,890	6,983	8,084
Northern Illinois U.	295	17,334	11,807	12,861	12,415	9,174	9,158	9,957	7,947	8,903	8,610	8,030
Chapman U.	296	1,871	1,576	1,733	2,379	2,373	2,790	3,357	3,598	4,057	5,738	7,850
Idaho State U.	297	14,645	17,149	16,095	13,206	11,091	11,738	11,926	11,184	10,081	7,547	7,849
SUNY, C. of Environmental Science and Forestry	298	8,907	8,732 i	8,557 i	8,382	5,564	7,784	8,313	7,730	6,873	7,743	7,809
U. Texas Health Science Center, Tyler	299	ne	ne	ne	ne	ne	3,713	3,757	5,792	6,438 i	7,084 i	7,732
St. Edward's U.	300	ne	6,899	5,500	5,500	2,250	8,000	7,500	7,989	7,289	6,500	7,700
Teachers C., Columbia U.	301	6,533	8,526	10,173	8,494	8,909	12,775	11,635	10,194	8,925	8,054	7,614
Creighton U.	302	11,850	14,140	14,270	13,569	11,690	9,359	10,619	7,946	5,721	8,265	7,583
Central Michigan U.	303	2,536	4,841	5,055	5,464	6,187	5,464	5,387	5,557	7,130	8,100	7,450
East Tennessee State U.	304	6,272	7,705	8,052	6,909	5,484	5,135	5,658	5,933	7,168	7,688	7,329
U. Arkansas, Little Rock	305	7,571	8,615	8,104	6,848	5,188	4,259	4,934	4,756	5,764	6,688	7,289
Louisiana Tech U.	306	10,806	11,952	9,835	8,881	7,742	5,776	5,455	5,608	5,801	6,564	7,167
Norfolk State U.	307	5,413	6,462	7,739	5,523	6,492	5,104	7,230	7,101	6,912	8,046	7,148
Clarkson U.	308	9,573	9,531	7,061	5,283	5,476	5,440	6,183	6,819	8,203	8,551	7,095
Alcorn State U.	309	9,256	8,655	8,598	8,321	7,447	6,784	6,387	8,634	7,372	7,540	7,023
U. North Carolina, Wilmington	310	14,364	14,218	11,571	9,133	6,063	5,819	5,966	5,990	5,732	7,174	6,783
U. Massachusetts, Dartmouth	311	12,236	13,657	10,979	8,860	8,549	7,321	6,548	7,370	7,156	7,353	6,506
Tennessee Technological U.	312	7,490	6,397	4,674	3,999	3,725	3,578	4,076	4,969	5,390	6,153	6,471
U. Minnesota, Duluth	313	6,441	8,564	7,597	7,264	5,940	10,025	8,055	6,033	5,520	7,143	6,454
Bowling Green State U.	314	4,963	6,164	7,005	9,323	6,576	5,544	6,229	6,395	6,056	5,852	6,397
U. Missouri, Saint Louis	315	7,151	10,157	9,650	7,868	5,844	4,369	4,959	5,240	6,364	7,059	6,146
Naval War C.	316	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	3,797 i	4,384	5,060	5,944

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
California State U., San Bernardino	317	3,394	9,953	7,251	6,190	6,414	5,959	6,348	6,565	7,920	8,651	5,886
California State U., Sacramento	318	5,829	6,965	5,663	7,546	5,241	5,697	5,619	6,894	6,392	5,801	5,693
Alabama A&M U.	319	22,154	22,120 i	22,086 i	22,052 i	22,018 i	21,982	18,556 i	15,130 i	11,704 i	8,277	5,643
Virginia State U.	320	5,552	6,035	6,999	6,212	5,424	4,951	5,204	4,779	5,655	6,636	5,642
California State Polytechnic U., Pomona	321	2,563	2,978	2,635	2,996	2,165	1,881	2,199	3,231	4,297	3,555	5,514
U. South Florida, Saint Petersburg	322	2,570	2,058	2,799	3,031	2,768	2,650	3,019	3,514	3,194	3,121	5,344
Clark Atlanta U.	323	7,229	7,040	8,447	7,576	7,241	7,455	6,048	5,811	5,634	5,689	5,324
Florida Gulf Coast U.	324	9,542	10,328	5,146	4,800	4,609	4,501	4,442	3,746	3,164	3,773	5,304
CUNY, John Jay C. of Criminal Justice	325	3,418	4,086	3,921	3,546	3,214	3,392	4,625	4,826	5,896	4,971	5,297
U. Hawaii, Hilo	326	12,265	7,150	20,726	15,391	8,603	12,772	9,402	5,461	5,264	4,924	5,274
DePaul U.	327	3,896	4,629	4,827	4,260	5,023	4,622	4,623	5,424	4,532	4,464	5,156
Oakland U.	328	7,130	9,178	9,185	7,605	6,885	6,161	6,198	6,418	5,777	6,690	5,068
U. New England	329	2,829	3,242	3,359	4,271	4,789	4,862	5,298	5,918	4,976	5,269	5,064
Duquesne U.	330	5,904	5,991	5,723	4,343	4,670	5,004	5,809	5,759	5,762	4,552	4,981
Villanova U.	331	6,367 i	6,817	5,518 i	4,218	5,008	4,572	4,334	4,048	3,968	4,085	4,921
Morehouse C.	332	7,857	8,460 i	9,063	9,226	6,919	5,944	4,301	3,667	4,531	4,494	4,825
Fort Valley State U.	333	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,434	4,806
Sam Houston State U.	334	5,066	3,855	2,717	2,360	2,209	1,491	1,830	1,872	2,200	3,723	4,764
Arkansas State U., Jonesboro	335	6,194	8,644	9,645	6,360	3,958	4,347	4,826	4,396	4,371	4,876	4,712
U. Tulsa	336	7,126	7,970	6,782	6,279	5,773	6,384	6,426	5,905	4,615	4,142	4,697
CUNY, Brooklyn C.	337	5,358	7,098	6,578	5,999	6,548	5,771	5,995	5,244	4,280	4,465 i	4,651
National Defense U.	338	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583
U. North Florida	339	4,636	5,082	3,760	1,424	1,177	1,198	1,356	1,435	3,818	4,017	4,568
Winston-Salem State U.	340	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	4,498
California State U., Bakersfield	341	637	727	641	1,721	1,140	1,875	1,689	2,466	3,243	4,376	4,486
Western U. of Health Sciences	341	885	914	1,300	1,163	1,545	1,206	2,391	2,725	2,755	3,035	4,486
Kentucky State U.	343	3,501	3,146	4,924	3,906	4,335	4,590	5,146	5,382 i	5,618	4,692	4,456
Wellesley C.	344	3,677	2,496	2,902	3,135	3,579	2,980	5,197	3,815	3,947	3,602	4,441
U. Arkansas, Pine Bluff	345	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,683	4,299	4,393
Montana Technological U.	346	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322
Wesleyan U.	347	4,496	5,525	4,726	3,930	3,363	3,612	3,493	3,902	4,353	4,793	4,305
U. Detroit Mercy	348	633	856	508	ne	317	890	2,565	2,296	4,385	4,936	4,226
Tarleton State U.	349	6,379	6,036	5,086	3,525	3,683	3,927	4,495	4,602	4,288	4,632	4,139
Rhode Island C.	350	ne	2,404	9,060	8,976	6,960	7,258	3,928	3,831	3,337	3,332	4,128
California State U., Fullerton	351	13,651	16,159	12,440	11,716	6,932	4,784	3,815	4,237	4,981	4,340	4,121
West Virginia State U.	352	2,759	3,193	3,945	3,316	6,006	5,562	4,126	5,072	5,361	4,592	3,993

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Western Washington U.	353	4,594	4,661	3,891	3,789	4,039	4,546	4,701	5,271	4,393	3,978	3,966
Dakota State U.	354	ne	402	3,555	831	908	765	1,593	1,989	3,273	3,008	3,957
U. Tennessee, Chattanooga	355	4,866	2,932	3,202	2,056	1,501	1,949	1,092	1,144	1,490	2,393	3,915
California State U., Monterey Bay	356	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889
U. New Orleans	357	19,244	19,000	14,521	11,051	9,490	7,492	6,826	5,568	5,258	4,353	3,868
Fordham U.	358	4,132	3,925	4,187	4,874	4,258	3,969	5,979	5,761	4,973	4,218	3,831
Fisk U.	359	7,686	4,631	4,058	6,307 i	8,557	9,050 i	9,544	4,327	2,781	4,615	3,811
South Carolina State U.	360	6,334	8,630 i	10,926	8,770 i	6,614 i	4,456	4,556 i	14,300	14,938 i	3,659	3,796 i
Montclair State U.	361	1,876	2,629	3,593	3,410	2,533	2,716	2,649	2,163	3,505	4,164	3,782
U. of Health Sciences and Pharmacy in St. Louis	362	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767
Lincoln U., Jefferson City	363	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636
U. Colorado Colorado Springs	364	6,699	5,805	3,540	3,407	4,018	4,244	3,976	4,525	4,094	3,072	3,508
Southern Illinois U., Edwardsville	365	4,192	4,056	3,172	3,209	2,249	2,175	3,422	3,805	3,209	3,561	3,467
Clark U.	366	3,243	3,801	3,141	2,848	2,751	2,515	2,002	2,513	2,962	3,495	3,350
Youngstown State U.	367	2,067	3,304	2,159	1,834	1,876	2,346	1,083	3,257	3,634	2,878	3,308
Western Kentucky U.	368	6,866	6,210	5,712	4,279	3,383	3,450	4,018	3,808	3,162	3,391	3,265
CUNY, Lehman C.	369	2,560 i	2,700	2,215	1,874	2,249	2,394	3,625	3,734	4,478	3,342	3,197
Texas Christian U.	370	3,373	3,924	4,998	5,870	5,779	4,732	3,617	4,035	3,198	2,866	3,168
California State U., Fresno	371	3,424	3,795	3,532	2,682	2,921	3,573	3,539	3,511	3,969	2,900	3,117
Central State U.	372	2,544	3,528	3,390	2,688	2,000	1,508	1,546	1,491	2,299	2,517	3,097
C. Charleston	373	11,610	5,056	6,277	6,385	5,051	6,200	6,269	5,870	4,376	4,395	3,087
U. Washington, Tacoma	374	573	406	1,098	1,104	1,577	2,515	2,682	2,042	2,230	2,808	3,075
Middle Tennessee State U.	375	2,651	2,669	4,553	2,585	1,564	2,302	3,535	2,513	2,391	2,473	3,062
Toyota Technological Institute, Chicago	376	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038
MGH Institute of Health Professions	377	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014
Pace U.	378	627	952	1,476	1,054	1,212	1,681	2,845	2,423	2,117	2,579	2,997
Southern U. and A&M C., Baton Rouge	379	5,920	6,057 i	6,194	4,191	3,850	3,258	2,778	2,866	3,431	3,243	2,996
Texas Southern U.	380	5,240	4,899	4,924	4,741	3,512	3,458	3,269	3,674	2,839	3,238	2,941
U. Washington, Bothell	381	446	911	701	825	2,005	2,236	2,863	3,169	2,920	3,353	2,815
Barnard C.	382	2,754	3,325	3,194	2,568	2,373	2,384	3,082	2,777	2,491	2,871	2,800
U. Central del Caribe	383	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743
Seton Hall U.	384	2,206	2,681	1,667	1,694	1,801	1,919	1,975	1,982	3,551	3,982	2,725
Haverford C.	385	2,715	1,851	1,478	1,547	1,309	1,476	972	1,031	1,665	2,343	2,680
U. of the District of Columbia	386	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	3,283	2,664
Smith C.	387	2,843	3,159	2,690	2,853	3,042	3,575	2,634	3,449	3,305	2,892	2,650
Oklahoma State U., Center for Health Sciences	388	817	377	83	61	31	321	748	1,055	1,021	985	2,618

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
James Madison U.	389	5,563	5,218	6,476	4,617	3,017	2,418	2,203	2,273	1,879	2,717	2,609
Eastern Michigan U.	390	9,088	7,916	7,374	2,428	1,031	1,482	1,627	1,474	1,522	2,135	2,598
Pacific U.	391	845	242	1,767	1,674	1,137	962	1,419	4,058	2,637	3,917	2,596
Alabama State U.	392	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582
CUNY, Graduate Center	393	4,901	3,462	3,191	2,827	2,310	2,106	1,796 i	1,485	2,592	3,009	2,561
California State U., Chico	394	1,502	1,317	1,345	1,682	1,169	854	933	581	1,060	1,864	2,520
Northwest Indian C.	395	1,943	1,993 i	2,044	2,216	1,705	1,154 i	ne	ne	2,037	2,520	2,497 i
Salisbury U.	396	1,823	586	1,256	2,342	3,131	2,727	2,414	2,203	1,805	2,290	2,413
U. North Carolina, Asheville	397	1,367	1,770	1,789	1,608	1,176	1,531	2,312	1,851	1,442	1,846	2,405
Humboldt State U.	398	3,024	3,292	3,588	2,829	2,504	3,280	4,455	3,796	3,024	2,103	2,399
U. San Diego	399	1,352	1,184	1,903	2,066	2,451	1,836	2,152	2,299	2,397	2,511	2,398
Ball State U.	400	3,988	3,064	3,320	2,440	1,971	2,291	3,253	2,531	3,028	2,929	2,397
California State U., East Bay	401	643	921	536	310	ne	ne	479	ne	ne	ne	2,348
U. South Carolina, Aiken	402	122	592	ne	937	759	689	1,155	2,697	2,437	2,379	2,328
CUNY, C. Staten Island	403	952	1,583	1,470	1,311	1,400	1,222	1,700	1,543	1,982 i	2,421	2,295
U. Michigan, Dearborn	404	2,932	4,305	2,992	3,300	2,901	1,844	2,172	1,930	1,448	1,850	2,264
U. Southern Maine	405	9,137	7,752	5,490	4,582	3,821 i	3,060 i	2,299	2,252	2,362	2,551	2,231
Johnson C. Smith U.	406	ne	ne	ne	ne	ne	ne	1,279	1,469	2,003	1,909	2,230
U. Wisconsin-Stevens Point	407	4,456	3,754 i	3,052	2,131	1,740 i	1,349 i	957	1,266 i	1,575 i	1,884 i	2,193
Lamar U.	408	4,377	4,036	3,072	1,616	1,118	352	611	949	1,380	2,641	2,146
Spelman C.	409	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136
Tougaloo C.	410	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102
Southern U. and A&M C., Agricultural Research and Extension Center	411	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736 i	3,057	3,057	2,085
U. Louisiana, Monroe	412	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025
Northeastern Illinois U.	413	448	311	ne	ne	588	ne	ne	1,403	2,442	2,478	2,018
Towson U.	414	1,806	2,630	1,771	2,015	2,268	2,020	1,616	1,599	2,133	2,144	2,010
Purdue U., Northwest	415	na	na	na	na	na	na	na	4,024	3,205	2,493	1,996
Kennesaw State U.	416	1,246	1,054	2,214 i	3,374	1,413	2,329	1,925	2,085	2,343	2,499	1,983
Bowie State U.	417	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967
U. Oklahoma, Tulsa	418	ne	ne	ne	ne	ne	895	1,104	976	1,605	1,803	1,953
Rutgers, State U. New Jersey, Camden	419	2,001	1,555	1,545	1,750	1,766	2,215	2,653	2,412	1,567	1,096	1,952
Albany C. of Pharmacy and Health Sciences	420	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,094	1,692	1,938
Murray State U.	421	2,074	2,471	1,904	816	612	798	564	1,200	1,587	2,639	1,929
Claflin U.	422	3,226	5,103	5,090	2,643	1,711	1,158	1,743	1,344	1,491	1,735	1,907
William Paterson U.	423	105	140	ne	ne	ne	ne	564	476	642	1,592	1,896

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bates C.	424	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885
U. Northern Iowa	425	1,460	2,294	2,182	2,347	2,094	1,961	2,297	2,154	1,697	2,343	1,881
Bowdoin C.	426	1,815	1,942	3,317	3,244	2,330	2,156	2,457	1,812	2,065	1,790	1,862
U. Northern Colorado	427	2,082	1,681	1,373	1,024	1,965	1,359	1,962	2,349	2,271	1,966	1,853
Gallaudet U.	428	5,522	4,633	4,335	4,500	3,012	2,340	2,135	2,380	2,259	2,190	1,841
Grand Valley State U.	429	1,134	1,648 i	2,162 i	2,675	2,151	2,033	1,479	1,543	1,719	1,663	1,831
Skidmore C.	430	1,872	1,562	1,334	1,448	1,193	969	747	1,194	1,893	2,261	1,827
Saginaw Valley State U.	431	77	525	334	203	ne	223	237	621	1,227	2,339	1,809
Reed C.	432	796	772	678	897	1,125	1,638	1,690	415	1,065	1,423	1,806
St. John's U., New York	433	1,274	1,263	1,185	872	883	992	940	1,020	1,612	1,666	1,805
Savannah State U.	434	1,774	2,518	1,874	2,514	2,127	1,796	2,251	1,390	1,778	1,709	1,804
Western Illinois U.	435	658	746	3,855	1,183	735	373	ne	1,198	1,551	1,495	1,801
Georgia Southern U.	436	2,077	1,530	1,359	2,092	3,247	3,004	2,695	2,978	1,805	1,780	1,790
Amherst C.	437	1,102	1,992	1,988 i	1,985	1,543	1,835	1,207	1,228	1,630	2,118	1,775
Harvey Mudd C.	438	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748
Western Carolina U.	439	1,296	721	974	664	669	740	873	971	1,038	1,736	1,707
Texas Tech U., Health Sciences Center, El Paso	440	ne	ne	ne	ne	5,352	2,893	3,064	2,410	2,532	2,279	1,703
Central Washington U.	441	4,038	2,242	1,840	1,263	1,113	1,575	1,580	2,297	1,840	2,159	1,701
Texas Woman's U.	442	822	1,173	1,908	1,136	961	722	573	945	1,422	1,864	1,700
Hawaii Pacific U.	443	ne	1,261	1,145	850	1,116	789	2,071	1,921	1,905	1,809	1,699
Bucknell U.	444	2,745	2,747	1,540	1,590	1,725	1,489	1,436 i	1,383 i	1,329	1,764	1,693 i
SUNY, C. of Optometry	445	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688
Morehead State U.	446	1,528	1,656	1,597	1,816	1,069	1,217	1,797	2,162	1,839	1,651	1,674
U. Richmond	447	2,138	1,831	2,376	1,979	2,134	2,013	1,924	1,870	1,628	1,575	1,628
Troy U.	448	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,591
CUNY, New York City C. of Technology	449	81	145	ne	ne	ne	ne	ne	ne	1,978	1,891	1,585
Occidental C.	450	665	904	1,079	1,105	1,365	853	1,260	701	901	1,614	1,567
Winthrop U.	451	ne	3,440	5,243	7,451	7,955	5,802	1,178	1,189	1,419	1,438	1,563
Touro U.	452	999	1,558	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,558
Middlebury C.	453	2,245	2,289	2,513	1,856	1,351	1,535	1,736	2,002	1,774	1,558	1,546
New York Institute of Technology	454	250	494	1,339	2,527	3,504	2,375	1,607	984	1,501	3,135	1,542
West Texas A&M U.	454	2,100	1,347	1,802	1,315	1,551	1,860	1,735	1,338	1,329	1,565	1,542
Bryn Mawr C.	456	1,301	1,901	1,848	2,514	1,353	1,713	2,556	2,507	2,242	1,801	1,531
Santa Clara U.	457	3,494	2,019	2,074	1,668	2,039	1,226	1,634	1,468	1,592	1,333	1,522
CUNY, York C.	458	ne	1,507	861	693	ne	534	ne	ne	ne	1,511	1,513
CUNY, Baruch C.	459	1,010	1,150	1,209	735	695	845	1,325	1,027	1,412	1,359	1,470

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Appalachian State U.	460	1,813	2,586	2,287	1,731	2,198	1,796	1,896	2,630	1,922	1,332	1,469
Northern Kentucky U.	461	1,476	1,595	1,483	1,240	1,418	1,342	1,133	1,109	890	1,316	1,462
Elizabeth City State U.	462	5,552	10,402	4,284	4,439	2,461	2,058	1,827	1,306	960	ne	1,455
U. Central Oklahoma	463	1,059	1,146	750	765	1,042	3,193	1,409	1,168	1,127	1,457	1,444 i
Mount Holyoke C.	464	1,362	2,010	1,827	1,863	2,435	2,327	2,848	3,168	2,210	2,074	1,442
U. New Haven	465	ne	1,592	2,471	1,400	954 i	507	2,157	548	3,853	2,786	1,440
California State U., Dominguez Hills	466	2,658	2,671	2,689	4,235	3,381 i	2,527	2,215	1,238	1,354	1,261	1,433
U. Central Arkansas	467	1,658	1,732	1,989	1,898	1,297	1,300	1,138	1,236	1,262	1,462	1,421
Davidson C.	468	1,153	1,053	651	1,619	1,170	1,703	813	1,105	813	973	1,411
Palmer C. of Chiropractic, Davenport	469	3,009	3,344	2,906	1,991	1,775 i	1,558	1,485	1,189	1,100	1,100	1,400
U. Houston-Downtown	470	908	1,186	1,828	1,183	1,800	1,571	1,165	1,710	1,836	1,437	1,392
U. Wisconsin-Superior	471	5,197	5,638 i	5,302 i	ne	1,949 i	ne	ne	ne	1,924	1,527	1,382
U. of the Pacific	472	3,135	2,678	2,090	1,676	2,675	1,751	1,991	1,474	2,141	2,158	1,375
Christopher Newport U.	473	1,049	1,587	1,230	1,083	1,302	1,041	858	957	1,069	1,285	1,365
Long Island U.	474	630 i	681 i	666 i	655	ne	ne	852	1,615	1,929	1,839	1,349
Mills C.	475	1,095	753	1,058	1,738	1,672	938	873	1,286	928	840	1,341
U. Wisconsin-Oshkosh	476	832	1,154	1,238	1,012	1,048 i	1,084 i	ne	1,160 i	1,212 i	1,282 i	1,336 i
Indiana U. Pennsylvania	477	660	833	672	101	169	ne	373	1,309	891	1,810	1,309
Seattle U.	478	468 i	622	530	ne	1,348	927	820	862	1,644	1,307	1,303
Black Hills State U.	479	2,434	1,172	1,675	2,163	1,720	1,674	2,056	1,448	1,437	1,535	1,287
California State U., Stanislaus	480	ne	1,037	1,070	650	341	174	221	478	734	964	1,284
U. Puerto Rico, Humacao	481	1,950 i	1,976	1,949	1,452	1,102	669	ne	ne	882	828	1,279
Lewis and Clark C.	482	843	684	718	1,490	1,378	872	636	723	848	931	1,268
U. Nebraska, Kearney	483	289	1,018	716	840	656	515	891	1,047	1,075	1,240	1,259
Stephen F. Austin State U.	484	5,530	1,690	1,800	1,836	1,850	2,340	1,808	1,276	1,242	1,332	1,257
SUNY, Buffalo State	485	1,293	1,965	2,348	1,336	1,076	846	859	877	1,057	1,225	1,241
Carleton C.	486	1,803	2,332	2,212	3,347	3,157	3,813	3,508	3,366	2,542	1,891	1,236
Fort Lewis C.	487	340	511	ne	ne	ne	ne	ne	ne	ne	1,284	1,228
Texas A&M U.-Commerce	488	1,362	1,557	1,600	1,349	1,234	1,121	876	823	1,159	836	1,226
Jacksonville State U.	489	133	265	ne	ne	ne	3,020	3,081	2,938 i	2,794	2,312	1,216
Coastal Carolina U.	490	1,533	1,487	1,598	1,714	1,281	1,041	1,052	1,028	1,031	1,294	1,211
U. Puerto Rico, Cayey	491	710	1,278	1,515	1,168	1,143	959	1,105	704	632	963	1,210
Trinity U.	492	1,023	1,046	1,222	2,034	1,544	1,183	973	986	1,187	924	1,207
Franklin and Marshall C.	493	1,857	1,397	1,116	879	889	1,017	955	1,732	1,760	1,582	1,202
Dillard U.	494	7,096	7,211 i	7,325	7,692	6,889	8,853	7,605	5,592	5,503	1,390	1,200
Colorado State U., Pueblo	495	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hope C.	496	2,523	2,414	1,912	1,993	2,000	1,436	1,251	1,169	1,100	1,361	1,155
Eastern Washington U.	497	46	559	725	1,226	885	955	1,287	1,193	1,081	864	1,153
U. of the Sciences Philadelphia	498	984	1,338	1,287	1,357	987	1,096	1,153	1,102	1,095	1,318	1,126
Pomona C.	499	1,048	1,779	1,599	2,227	1,789	1,074	1,579	1,038	868	863	1,123
Keck Graduate Institute	500	ne	1,744	1,671	1,227	1,302	937	949 i	969 i	1,007 i	1,078 i	1,113 i
Loyola Marymount U.	501	1,731	2,815	1,222	1,357	1,142	819	707	883	1,040	1,185	1,105
U. Alaska, Southeast	502	1,222	941	1,003	1,113	1,183	1,341	1,502	1,480	1,636	1,235	1,098
Williams C.	503	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086 i
Hobart and William Smith Colleges	504	1,118	1,379	1,103	1,896	730	442	ne	528	ne	1,047	1,072
Vassar C.	505	1,280	1,838	1,258	1,694	1,220	1,133	1,495	1,600	4,185	909	1,055
New School	506	1,670	2,042	2,385	2,669	1,972	2,300	2,428	2,345	1,857	1,819	1,050
Saint Joseph's U.	507	1,368	1,087	835	700	468	526	476	239	252	373	1,047
Roger Williams U.	508	1,574	2,132	2,166	1,877	2,038	1,696	1,736	2,024	1,052	1,135	1,045
Keene State C.	509	ne	1,884	1,956 i	2,029	2,130	820	ne	837	ne	1,022	1,043
Swarthmore C.	510	913	1,029	1,135	1,239	1,292	1,379	1,458	1,451	1,586	1,539	1,041
New Mexico Highlands U.	511	970	989	735	741	969	ne	1,086	1,015	741	ne	1,034
Southern Connecticut State U.	512	1,459	1,199	1,595	1,176	1,620	1,626	1,324	1,274	823	803	1,026
Trinity C., Hartford	513	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019
Fayetteville State U.	514	10,844	10,029	11,187	11,906	10,186	9,243	11,207	2,322	2,445	2,168	1,008
Erikson Institute	515	ne	355	1,648	1,187	1,212	1,610	1,719	2,529	1,822	753	1,006
Hofstra U.	516	2,206	2,182	2,660	1,967	2,577	2,119	2,149	1,471	1,275	1,296	997
Texas A&M International U.	517	1,623	1,195	989	868	977	658	924	1,730	2,008	1,847	986
Ithaca C.	518	617	627	774	825	816	635	ne	ne	ne	ne	981
U. Illinois, Springfield	519	436	455	602	534	415	307	725	1,533	1,109	980	976
Doane U.	520	ne	1,008	546	ne	846	390	ne	ne	865	928	958 i
C. New Jersey	521	461	254	ne	ne	ne	ne	ne	929	829	ne	951
SUNY, C. Plattsburgh	522	1,187	726	454	ne	459	717	545	455	1,254	1,197	950
SUNY, Geneseo	522	755	1,306	1,532	640	474	663	930	992	998	1,206	950
Indiana State U.	524	990	1,352	1,268	858	1,005	992	1,189	816	927	1,190	949
Alfred U.	525	1,687	2,004	1,648	1,468	1,351	1,434	1,558	917	1,416	1,580	947
U. Ana G. Mendez, Gurabo	526	691	1,054	1,034	747	1,111	447	437	428	471	951	946
Midwestern U.	527	315	438	427	369	517	654	1,060	1,184	1,278	1,045	936
Sonoma State U.	527	690	559	ne	1,800	1,581	964	630	ne	ne	ne	936
Colgate U.	529	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	918
Providence C.	530	857	726	ne	827	ne	1,162	981	783	960	857	913
National U. of Natural Medicine	531	ne	247	ne	ne	ne	ne	ne	427	ne	760	912

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Central Connecticut State U.	532	366	684	677	617	506	243	143	231	ne	540	901
U. Wisconsin-Green Bay	533	778	732 i	686 i	640 i	594 i	545	919	666	546	821	890
Calvin U.	534	2,084	560	664	774	1,273	1,034 i	795	880	1,363	925	888 i
Liberty U.	535	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	886
CUNY, system office	536	ne	ne	1,398	1,001	362	828	832	527	1,977	2,241	884
Southeastern Louisiana U.	536	1,161	911	985	1,039	692	1,429	975	1,215	1,046	803	884
Stockton U.	538	ne	405	160	ne	380	198	221	ne	246	553	872
U. of the Incarnate Word	539	ne	217	ne	ne	ne	403	ne	ne	868	1,075	869
U. Hartford	540	820	1,576	1,505	1,175	1,080	1,089	1,172	1,178	591	1,019	854
Furman U.	541	1,332	1,111	1,164	1,217	891	1,136	1,068	1,292	1,110	1,106	847
Suffolk U.	542	ne	299	249	360	317	250	413 i	576 i	ne	ne	844
Albany State U.	543	396	893	2,000	1,532	1,271	1,128	1,137	1,026	839	1,065	836
U. Wisconsin-La Crosse	544	2,150	2,013 i	1,876	1,240	1,095	1,006	1,250	1,158	1,171	777	817
Polytechnic U. Puerto Rico	545	ne	193	ne	ne	ne	ne	ne	ne	ne	1,884	813
Claremont Graduate U.	546	5,888	5,215	8,875	8,452	7,358 i	6,264 i	5,170 i	4,076 i	2,982 i	1,886	809
Colby C.	546	1,105	1,028	1,197	1,046	943	1,038	1,137	1,048	1,213	1,093	809
Salish Kootenai C.	548	475	748	1,415	1,612	1,399 i	1,186	1,142	1,481	1,739	1,251	802
Grambling State U.	549	993	1,515	1,428	1,116	1,065	1,177	974	4,283	1,806	1,066	787
New England C. of Optometry	550	726	1,236	1,685	1,588	533	419	618	ne	837	928	785
SUNY, C. Brockport	551	521	677	989	755	564	535	639	747	672	638	781
Kean U.	552	ne	550	1,191	347	ne	244	323	ne	ne	ne	775
Saint Michael's C.	552	487	471	ne	1,301	1,242	1,153	1,399	1,232	1,255	964	775
U. Texas, Tyler	554	3,378	1,277	6,535	4,123	4,601	2,570	1,936	708	719	813	774
Yeshiva U.	555	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772
Claremont McKenna C.	556	1,130	1,083	1,082 i	1,081 i	1,080 i	ne	644	754	555	730	771
Fort Hays State U.	557	ne	ne	ne	ne	ne	ne	ne	ne	ne	694	764
U. Texas of the Permian Basin	558	677	761	1,179	974	489	595	510	328	50	ne	757
Lafayette C.	559	1,223	1,564	1,205	1,166	1,070	1,066	997	1,493	1,133	910	755
Oberlin C.	560	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743
Citadel Military C. South Carolina	561	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	736
West Chester U. Pennsylvania	562	3,614 i	5,845	1,457	561	404	511	454	624	671	715	724
Kenyon C.	563	413	358	ne	ne	ne	ne	ne	ne	764	776	714
Pepperdine U.	564	933	299	808	914	1,162	1,058	1,233	1,087	713	914	693
Mercyhurst U.	565	854	389	729	674	445	616	612	618 i	ne	668 i	690 i
Stonehill C.	566	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	674
Biola U.	567	ne	ne	ne	ne	ne	ne	564 i	576 i	599 i	641 i	662 i

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. of Mary Washington	568	ne	660	445	ne	ne	425	ne	ne	418	577	660
Macalester C.	569	1,075	1,517	1,106	876	879	708	771	970	553	805	647
U. Wisconsin-Eau Claire	569	1,320	829	817	655	395	ne	661	955	705	748	647
Grinnell C.	571	1,161	287	648	372	414	546	340	652	635	364	644
Benedict C.	572	1,473	2,925	2,713	2,625	2,443	1,373	1,621	1,634	1,889	1,226	635
U. Houston-Clear Lake	573	301	818	730	875	739	541	756	753	894	718	632
California State U., Maritime Academy	574	ne	1,200	1,748	1,257	122	31	71	225	550	617	621
La Sierra U.	575	ne	17	ne	ne	0	45	127	575	623	640	618
Milwaukee School of Engineering	576	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613
Midwestern State U.	577	10	ne	ne	ne	ne	ne	ne	ne	ne	ne	599
Northwestern State U. Louisiana	578	635	683	609	600	494	ne	490	458	490	579	598
Purdue U., Fort Wayne	579	1,797	2,443	1,946	1,901	1,479	1,650	874	812	773	544	589
CUNY, Medgar Evers C.	580	392	1,315	981	1,066	665	686	ne	1,440	1,466	954	588
U. North Carolina, general administration	581	ne	ne	ne	ne	ne	337	174	161	98	213	572
Kettering U.	582	4,477	3,452	2,165	1,306	1,173	1,032	1,279	2,105	1,144	402	568
Edward Via C. of Osteopathic Medicine	583	ne	707	502	517	250	89	88	94	195	749	566
Whitman C.	584	1,080	957	398	ne	ne	ne	ne	ne	ne	704	558
Lipscomb U.	585	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	557 i
Eastern Kentucky U.	586	2,638	2,852	2,329	2,078	1,518	1,111	1,029	758	655	598	554
California State U., Channel Islands	587	ne	451	ne	425	528	825	249	142	284	500	553
Pennsylvania State U., Behrend	588	887	1,029	1,232	1,353	1,610	1,510	2,445	1,670	1,025	1,427	543
U. North Georgia	589	ne	ne	ne	ne	ne	ne	ne	671	1,013	637	542
Minnesota State U., Mankato	590	2,051	852	701	313	317	546	1,260	605	639	708	525
U. Ana G. Mendez, Carolina	591	1,139	1,179	1,163	972	656	530	564	782	391	ne	520
SUNY, Oswego	592	644	871	ne	673	ne	ne	ne	669	661	628	492
U. Massachusetts, central office	593	ne	ne	1,655	2,126	3,468	1,445	1,124	721	643	488	488
U. Wisconsin-River Falls	593	134	174 i	ne	ne	ne	ne	ne	529	445	ne	488
Connecticut C.	595	954	1,005	1,130	833	514	756	817	777	505	752	483
Sul Ross State U.	596	1,595	1,672	1,073	735	546	333	272	440	553	339	481
Pittsburg State U.	597	999	1,280	989	791	1,023	453	270	316	195	339	477
Austin Peay State U.	598	ne	729	484	364	189	334	325	347	599	295	475
Union C., Schenectady	599	1,427	959	867	1,863	1,385	1,080	1,680	554	885	972	462
St. Cloud State U.	600	1,260	622	215	420	797	1,299	643	555	529	733	459
Pennsylvania State U., Harrisburg	601	963	1,302	1,290	701	269	565	270	215	292	80	451
U. of St. Thomas (MN)	602	842	933	767	702	352	ne	195	212	320	313	450
Des Moines U.	603	62	91	ne	ne	224	ne	386	878	933	845	449

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Northern Michigan U.	604	287	237	ne	ne	ne	ne	288	304	354	311	446
Weber State U.	605	355	550	192	ne	ne	ne	ne	ne	ne	ne	424
Philadelphia C. of Osteopathic Medicine	606	812	850	694	277	104	192	150	260	260	346	422
West Virginia School of Osteopathic Medicine	607	22	17	ne	ne	ne	ne	ne	ne	ne	ne	419
Lawrence Technological U.	608	3,144	2,615	1,108	988	739	976	658	767	479	304	405
U. Puget Sound	609	166	295	ne	ne	ne	ne	ne	459	ne	ne	401
Willamette U.	609	666	650	1,327	822	860	745	1,090	1,028	872	549	401
Manhattan C.	611	166	245	ne	ne	ne	ne	ne	ne	ne	245	398
Fairfield U.	612	2,681	2,780	2,507 i	2,232	2,051	339	435	1,101	1,222	594	365
Dine C.	613	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	614	ne	106	179	340	523	264	643	206	201	191	342
U. Wisconsin-Platteville	615	46	50 i	ne	ne	328 i	309 i	ne	349 i	ne	339 i	336 i
Oregon Institute of Technology	616	ne	193	ne	ne	ne	270	1,268	752 i	235	437	326
Wheaton C., Wheaton	617	ne	585	114	ne	178	193	ne	70	50	301	324
Marshall B. Ketchum U.	618	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i
Gettysburg C.	619	524	266	ne	ne	ne	ne	ne	597	901	841	320
Merrimack C.	620	ne	ne	ne	ne	ne	ne	ne	ne	353	ne	306
Franklin W. Olin C. of Engineering	621	ne	666	1,090	946	1,050	1,103	782	588	472	162	293
C. Wooster	622	249	512	183	ne	404	386 i	ne	736	744	456	283
U. Michigan, Flint	623	227	322	ne	ne	ne	ne	ne	219	159	122	276
Albion C.	624	ne	113	ne	ne	ne	ne	ne	210	114	180	272
California Lutheran U.	625	ne	171	ne	ne	ne	ne	ne	ne	ne	256	271
St. Bonaventure U.	626	767	974	220	ne	ne	ne	159	ne	ne	ne	265
Andrews U.	627	280	77	ne	ne	ne	ne	ne	ne	ne	278	263
Florida Polytechnic U.	628	na	na	na	na	na	203	ne	ne	ne	338	252
Rhode Island School of Design	629	ne	322	ne	ne	ne	252	274 i	269 i	259 i	246 i	236 i
Bradley U.	630	512	554	889	899	587	319	969	492	317	515	235
St. Olaf C.	631	1,247	843	1,220	955	760	668	849	797	333	255	230
New Jersey City U.	632	132	ne	ne	ne	ne	ne	ne	2,048	3,905	3,142	223
Dickinson C.	633	602	821	1,029	692	568	517	397	380	ne	324	222
U. California, Office of the President	634	121	483	1,048	599	248	181	295	288	343	319	217
U. Minnesota, Morris	635	245	414	ne	811	262	306	428	294	ne	195	213
Colorado C.	636	473	458	389	376	570	602	358	745	429	324	196
Heidelberg U.	637	ne	266 i	ne	349	199	272	294	428	163	164	188
Framingham State U.	638	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179

TABLE 23

Federally financed higher education R&D expenditures, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Eastern Connecticut State U.	639	ne	20	ne	ne	6	17	27	19	36	181	177
Alaska Pacific U.	640	283	349	ne	ne	ne	802	671	665	436	451	148
U. San Francisco	640	428	371	1,867	858	738	503	280	405	310	198	148
Hamilton C.	642	1,077	1,406	1,400	1,153	918	559	442	135	129	190	144
Azusa Pacific U.	643	ne	970	609 i	ne	ne	323	606	334	199	137	128
Monmouth U.	644	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110
Elon U.	645	ne	40	112	161	398	376	423	358	309	284	106
Columbus State U.	646	ne	1,792	1,411	ne	ne	ne	ne	ne	ne	ne	93
Emerson C.	647	ne	ne	ne	ne	ne	423	366	469	308	138	84
Roseman U. of Health Sciences	648	ne	0	ne	ne	131	0	0	0	18	37 i	56
C. of Saint Benedict	649	ne	0	ne	72	71	53	38	44	47	45 i	43 i
Niagara U.	650	162	166	275	32	119	117	172	181	334	355	24
Babson C.	651	ne	187	ne	ne	ne	ne	0	0	12	14	14
La Salle U.	651	246	277	114	114	102	82	82 i	ne	ne	ne	14
U. South Florida, Sarasota-Manatee	653	106	191	ne	ne	6	57	31	40	34	0	10
All other surveyed institutions	-	838,688	958,952	910,885	838,837	631,734	611,605	624,995	637,897	673,015	40,969	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,845,654 thousand in federally financed R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero federal expenditures for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	46,143,829	2,000,937	2,109,065	26,254,002	486,259	3,789,237	808,565	969,278	361,560	8,120,891	1,244,035
Johns Hopkins U.[a]	1	2,682,410	216,738	59,766	714,341	102,890	372,067	5,066	4,910	48,966	1,154,993	2,673
U. Washington, Seattle	2	1,024,195	18,140	114,555	667,996	6,115	52,913	7,112	6,333	0	114,031	37,000
U. Michigan, Ann Arbor	3	884,880	6,046	8,059	547,904	5,771	35,572	6,479	89,211	2,196	176,141	7,501
Georgia Institute of Technology	4	790,518	162,577	7,862	22,969	4,104	22,417	1,899	21,373	0	537,693	9,624
Columbia U. in the City of New York	5	762,289	22,817	54,388	562,474	3,054	31,519	4,286	3,357	0	62,020	18,374
Stanford U.	6	751,414	15,368	8,906	529,667	6,338	68,199	10,782	5,291	0	81,391	25,472
U. California, San Diego	7	727,289	16,179	128,962	413,628	2,456	49,002	13,624	2,924	2,159	97,602	753
U. Pennsylvania	8	721,308	15,361	872	577,785	2,744	38,206	9,563	16,651	67	44,542	15,517
Duke U.	9	707,746	5,535	6,194	568,232	6,554	19,178	6,104	20,611	10	73,605	1,723
U. North Carolina, Chapel Hill	10	706,145	20,870	12,873	521,691	5,390	27,083	23,840	56,291	0	17,813	20,294
U. Pittsburgh, Pittsburgh	11	689,273	6,612	7,374	590,430	2,777	17,786	14,586	2,348	4,179	36,623	6,558
U. Maryland[b]	12	689,125	34,576	51,008	360,827	3,660	81,584	7,725	36,918	6,327	86,398	20,102
U. California, San Francisco	13	676,331	0	0	634,918	0	41,413	0	0	0	0	0
U. California, Los Angeles	14	655,030	10,302	27,134	459,909	10,440	37,430	13,035	9,105	25,701	49,163	12,811
Pennsylvania State U., University Park and Hershey Medical Center	15	638,930	76,419	24,605	146,249	13,702	54,776	26,894	12,255	0	277,345	6,685
U. Wisconsin-Madison	16	632,558	15,975	35,879	373,989	4,286	58,512	7,467	24,863	23,519	73,412	14,656
Harvard U.	17	605,603	11,955	28,723	401,466	17,747	55,363	2,242	27,768	248	52,801	7,290
Yale U.	18	585,170	3,666	2,704	512,821	2,556	28,840	5,983	1,833	0	24,172	2,595
U. Southern California	19	562,120	115,564	9,079	321,802	1,264	13,605	4,913	28,212	0	55,089	12,592
Cornell U.	20	562,021	18,829	6,428	352,059	2,519	96,374	4,826	7,441	0	69,870	3,675
Washington U., Saint Louis	21	559,882	4,675	5,000	489,071	902	18,393	4,887	443	2,104	19,552	14,855
Ohio State U.	22	539,359	8,892	6,489	321,704	3,945	44,079	5,681	10,746	19,052	85,038	33,733
Northwestern U.	23	531,654	5,024	730	393,156	1,580	46,669	2,438	8,526	20,452	49,383	3,696
Texas A&M U., College Station and Health Science Center	24	517,489	9,988	82,072	275,643	5,223	21,208	2,550	8,838	736	95,138	16,093
Vanderbilt U. and Vanderbilt U. Medical Center	25	514,299	0	966	413,212	902	15,195	7,496	2,189	0	52,373	21,966
U. Minnesota, Twin Cities	26	514,092	9,283	7,624	334,529	5,141	32,576	24,430	15,486	178	74,167	10,678
U. Texas, Austin	27	500,409	128,322	20,523	70,386	8,882	56,570	7,422	10,339	588	175,426	21,951
Massachusetts Institute of Technology	28	488,741	54,491	20,477	76,829	5,091	105,097	277	6,424	2,390	213,108	4,557
Icahn School of Medicine at Mount Sinai	29	480,452	0	0	480,452	0	0	0	0	0	0	0
Emory U.	30	452,636	323	684	419,593	1,926	15,380	3,989	916	0	8,676	1,149
New York U.	31	448,850	9,125	133	353,092	8,861	18,606	22,886	5,450	0	15,445	15,252

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Boulder	32	427,869	14,941	116,177	42,667	2,555	106,414	10,667	11,527	1,638	105,890	15,393
U. Alabama, Birmingham	33	400,110	1,356	438	341,725	875	3,934	4,434	201	0	44,243	2,904
U. Florida	34	397,202	9,016	8,484	265,894	985	16,445	7,199	4,981	0	62,573	21,625
U. Illinois, Urbana-Champaign	35	387,853	64,385	5,419	110,331	2,719	49,164	10,020	2,192	746	131,529	11,348
U. California, Davis	36	380,965	5,005	7,014	293,608	3,471	17,230	1,153	12,384	0	37,203	3,897
Case Western Reserve U.	37	357,589	34	478	316,948	325	7,203	670	3,051	88	27,954	838
U. Chicago	38	352,447	23,454	8,514	231,277	4,078	43,904	5,959	10,380	0	20,168	4,713
U. California, Berkeley	39	349,989	255	5,816	119,018	6,251	84,023	9,515	5,489	35,091	79,645	4,886
U. Colorado Denver and Anschutz Medical Campus	40	348,724	210	575	334,819	501	1,167	1,455	121	0	4,944	4,932
Indiana U., Bloomington	41	343,876	26,097	1,597	265,276	1,299	21,231	6,822	9,632	428	6,314	5,180
Boston U.	42	339,172	5,902	6,447	228,882	2,947	20,726	12,411	1,052	1,755	53,265	5,785
Michigan State U.	43	329,748	7,631	2,792	136,029	5,790	100,092	8,921	23,664	1,535	31,431	11,863
U. Arizona	44	328,807	7,670	13,625	179,457	2,295	77,135	1,971	6,264	2,745	34,459	3,186
Oregon Health and Science U.	45	321,572	0	0	312,023	0	0	0	0	0	9,549	0
California Institute of Technology	46	316,519	11,277	27,071	65,063	755	178,896	0	0	0	26,324	7,133
Baylor C. of Medicine	47	315,101	0	0	315,101	0	0	0	0	0	0	0
U. Utah	48	314,023	23,621	11,112	202,404	2,452	19,006	4,900	8,098	121	34,915	7,394
Rutgers, State U. New Jersey, New Brunswick	49	311,743	4,851	16,060	218,451	6,214	12,991	3,961	1,308	21	40,629	7,257
U. Virginia, Charlottesville	50	300,348	20,924	4,059	186,706	1,125	19,333	4,395	3,246	1,187	41,454	17,919
U. Rochester	51	296,241	3,383	2,392	173,198	185	94,572	4,341	234	4,085	12,764	1,087
Colorado State U., Fort Collins	52	287,100	3,645	55,722	160,153	3,768	7,884	3,000	8,715	3,116	30,860	10,237
U. Cincinnati	53	285,899	123	304	263,035	665	4,041	1,068	2,376	0	11,447	2,840
Arizona State U.	54	278,150	15,176	54,650	51,775	2,728	12,385	9,253	21,158	15,131	80,121	15,773
Purdue U., West Lafayette	55	270,605	20,261	4,079	76,677	1,609	21,579	4,932	5,955	80	122,469	12,964
U. Iowa	56	259,639	2,673	673	202,824	340	18,913	7,028	2,393	86	20,687	4,022
Scripps Research Institute	57	243,502	0	0	243,502	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	58	242,679	0	0	242,679	0	0	0	0	0	0	0
Utah State U.	59	242,156	1,543	67	24,904	268	3,982	2,430	1,241	0	206,998	723
U. California, Irvine	60	241,734	10,957	9,301	142,756	4,069	26,725	2,909	1,829	0	27,421	15,767
Uniformed Services U. of the Health Sciences	61	235,202	0	0	229,498	0	0	5,704	0	0	0	0
North Carolina State U.	62	232,110	11,737	13,202	68,962	11,947	13,657	1,236	3,537	9,094	94,592	4,146
U. Miami	63	224,184	91	39,430	167,153	301	4,172	10,048	451	0	2,128	410

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Illinois, Chicago	64	223,030	7,580	567	173,236	2,407	10,533	2,253	1,549	328	17,537	7,040
Carnegie Mellon U.	65	217,625	119,057	440	9,523	3,183	11,165	9,841	4,678	3,419	56,175	144
Virginia Polytechnic Institute and State U.	66	210,792	11,637	1,619	64,084	3,308	13,854	2,338	4,272	163	107,677	1,840
Albert Einstein C. of Medicine	67	204,635	0	0	204,635	0	0	0	0	0	0	0
Princeton U.	68	203,259	14,612	16,105	53,867	5,657	60,336	5,239	5,802	0	40,829	812
U. Kentucky	69	200,664	1,554	1,466	154,842	1,088	6,785	2,882	1,146	1,267	26,818	2,816
SUNY, U. Buffalo	70	200,155	10,894	2,537	108,496	597	7,195	3,537	1,433	0	61,140	4,326
U. Massachusetts, Medical School	71	192,938	0	0	192,938	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	72	191,186	0	115,744	0	0	0	0	0	0	75,442	0
U. Texas M. D. Anderson Cancer Center	73	186,488	0	0	163,540	8,853	8,114	3,013	2,968	0	0	0
Brown U.	74	185,676	10,937	3,436	99,779	9,117	11,133	7,262	17,975	6,403	17,138	2,496
U. Kansas	75	185,007	2,887	4,622	113,305	649	6,488	5,579	4,390	238	13,829	33,020
U. Oklahoma, Norman and Health Science Center	76	183,728	1,285	64,742	72,245	361	11,446	987	13,505	0	15,069	4,088
U. Georgia	77	171,351	1,105	6,304	124,753	1,545	4,815	15,401	6,118	98	7,208	4,004
Oregon State U.	78	167,494	6,218	33,730	70,516	1,108	4,523	947	3,220	5,438	35,946	5,848
Wake Forest U.	79	166,596	59	0	164,482	134	1,499	86	12	0	208	116
Iowa State U.	80	165,912	4,815	2,890	60,272	10,785	17,815	890	1,186	131	62,369	4,759
U. Connecticut	81	164,848	3,194	7,020	93,227	1,361	8,124	13,270	3,621	496	30,450	4,085
U. Hawaii, Manoa	82	163,694	11,055	47,728	62,548	457	19,021	315	1,606	2,825	17,536	603
Florida State U.	83	162,296	3,969	8,871	34,311	2,096	42,211	9,763	1,463	419	38,126	21,067
U. New Mexico	84	161,627	2,876	6,249	94,977	1,337	7,146	5,505	4,420	2,219	34,153	2,745
U. South Florida, Tampa	85	158,958	2,582	10,327	89,644	948	5,306	928	14,278	0	18,073	16,872
George Washington U.	86	157,533	3,135	243	117,325	631	5,366	2,257	8,955	1,023	15,091	3,507
U. Missouri, Columbia	87	156,190	3,674	924	99,475	1,017	7,654	6,323	450	607	16,905	19,161
Washington State U.	88	154,623	4,027	5,323	84,222	289	14,813	1,813	4,140	36	20,360	19,600
Temple U.	89	154,600	2,496	410	118,429	923	10,820	6,930	1,614	184	4,758	8,036
U. Dayton	90	154,101	5,964	352	542	0	849	0	0	0	145,508	886
Medical U. South Carolina	91	153,802	0	0	153,802	0	0	0	0	0	0	0
Virginia Commonwealth U.	92	152,751	1,584	280	108,867	609	2,194	9,648	305	0	11,779	17,485
Tufts U.	93	148,320	4,128	230	102,746	2,852	6,118	2,074	1,200	5,728	20,397	2,847
SUNY, Stony Brook U.	94	146,478	8,530	10,824	66,263	5,006	30,902	3,725	804	4,143	15,329	952
U. Delaware	95	144,142	5,643	10,785	34,456	1,565	19,931	5,755	6,459	1,640	53,448	4,460

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	142,219	5,114	1,203	94,419	1,030	7,751	9,013	835	611	21,064	1,179
U. Tennessee, Knoxville[c]	97	138,402	11,049	2,644	30,983	642	12,121	1,882	1,645	9,213	66,562	1,661
Northeastern U.	98	136,273	17,176	2,235	20,238	685	13,194	6,922	4,688	0	66,614	4,521
U. Texas Health Science Center, Houston	99	133,624	0	0	133,624	0	0	0	0	0	0	0
Medical C. Wisconsin	100	128,783	0	0	122,394	0	0	0	0	0	6,389	0
U. California, Santa Barbara	101	123,198	5,973	16,190	12,927	944	36,695	3,807	1,238	6	43,340	2,078
Mississippi State U.	102	120,616	1,749	13,635	37,520	172	2,267	491	17,297	442	45,520	1,523
U. Massachusetts, Amherst	103	116,170	16,804	2,803	36,163	2,093	18,261	5,429	2,031	327	28,635	3,624
U. Central Florida	104	114,575	18,095	1,768	13,481	780	18,976	7,631	1,439	142	35,514	16,749
U. Texas Medical Branch	105	114,103	0	0	113,827	0	0	0	0	0	276	0
Wayne State U.	106	113,137	1,066	129	89,306	1,184	9,101	802	474	527	5,947	4,601
U. Nebraska, Lincoln	107	107,299	4,420	1,331	48,702	1,254	15,583	5,396	6,959	0	21,149	2,505
Tulane U.	108	107,290	1,803	1,796	92,019	441	3,343	1,589	2,175	0	4,050	74
U. Nebraska, Medical Center	109	105,158	0	0	105,158	0	0	0	0	0	0	0
U. Alabama, Huntsville	110	104,288	35,309	14,123	622	2	9,595	0	1,449	0	42,499	689
George Mason U.	111	104,070	21,728	9,390	8,803	1,008	4,656	1,696	6,074	0	45,977	4,738
U. Notre Dame	112	104,030	8,265	0	11,155	3,063	28,853	3,845	1,391	1,400	41,771	4,287
Florida International U.	113	103,366	9,863	9,463	23,279	138	11,642	18,163	2,885	578	21,747	5,608
U. Texas Health Science Center, San Antonio	114	102,959	0	0	102,959	0	0	0	0	0	0	0
U. Alaska, Fairbanks	115	101,414	820	54,408	14,391	321	9,919	367	1,538	5,810	11,998	1,842
U. New Hampshire	116	100,373	576	41,304	30,725	339	3,335	601	6,208	0	11,466	5,819
Georgetown U.	117	98,682	3,947	0	77,133	0	7,424	1,358	6,531	1,745	0	544
U. Vermont	118	97,981	911	1,471	81,752	247	2,710	1,641	272	3,819	4,853	305
U. South Carolina, Columbia	119	97,143	1,999	3,889	53,870	1,185	2,264	5,018	7,078	0	15,010	6,830
Montana State U., Bozeman	120	93,759	1,149	3,123	33,155	1,281	10,794	114	289	6,302	28,753	8,799
U. California, Riverside	121	92,503	5,999	4,821	41,696	1,120	14,276	2,189	917	2,183	17,034	2,268
Rice U.	122	88,768	7,698	2,747	8,540	3,742	16,313	3,320	1,719	511	42,085	2,093
U. Louisville	123	88,251	0	169	71,342	84	1,446	725	783	0	9,077	4,625
Louisiana State U., Baton Rouge	124	87,895	5,502	8,178	45,823	2,241	13,295	180	1,272	216	10,268	920
Rockefeller U.	125	86,280	0	466	82,626	306	2,882	0	0	0	0	0
New Jersey Institute of Technology	126	85,746	3,428	0	14,836	1,726	8,354	0	283	2	53,702	3,415
Drexel U.	127	82,576	2,885	0	49,999	452	1,582	1,979	1,057	239	19,772	4,611

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Mississippi	128	82,361	101	617	59,546	47	7,993	0	179	18	12,422	1,438
Clemson U.	129	82,203	2,355	0	21,908	1,548	6,157	416	3,840	0	38,214	7,765
U. Oregon	130	81,278	4,228	5,073	29,342	853	9,034	15,759	1,893	0	0	15,096
West Virginia U.	131	79,657	1,646	6,352	41,367	369	8,805	1,195	1,272	519	15,930	2,202
Kansas State U.	132	79,100	1,844	627	43,367	230	8,746	3,998	4,175	647	12,530	2,936
Georgia State U.	133	78,199	1,531	575	35,718	1,148	13,754	4,236	5,873	0	0	15,364
U. California, Santa Cruz	134	76,468	2,199	15,234	16,914	161	17,723	98	667	0	22,817	655
Thomas Jefferson U.	135	74,676	0	0	74,594	0	0	0	0	0	59	23
Auburn U., Auburn	136	73,468	1,740	1,003	29,821	332	6,866	659	2,573	1,054	28,796	624
U. Houston	137	71,779	2,546	2,948	18,438	3,015	6,336	9,765	478	532	24,929	2,792
U. Arkansas for Medical Sciences	138	70,508	0	0	70,508	0	0	0	0	0	0	0
U. Rhode Island	139	67,242	465	25,349	21,040	0	2,579	705	1,518	7,265	6,939	1,382
SUNY, U. Albany	140	67,039	2,739	6,953	45,162	196	3,917	1,148	5,008	0	1,039	877
Rush U.	141	65,343	0	0	63,438	0	0	1,905	0	0	0	0
U. Nevada, Reno	142	64,793	3,390	6,910	33,564	805	4,702	2,469	2,237	86	9,664	966
Cold Spring Harbor Laboratory	143	62,215	0	0	62,068	0	0	0	0	0	0	147
U. Montana, Missoula	144	62,067	1,371	3,195	45,895	734	5,428	327	1,795	0	0	3,322
New Mexico State U.	145	60,971	3,869	3,870	17,602	151	18,373	229	341	38	15,583	915
U. Maryland, Baltimore County	146	59,391	6,765	12,497	8,644	368	17,092	1,219	5,801	1,141	4,651	1,213
U. Wyoming	147	57,353	541	10,107	31,367	1,155	1,206	664	295	6,103	4,640	1,275
U. Texas, Dallas	148	55,983	6,289	163	16,603	668	9,295	20	577	16	21,594	758
Augusta U.	149	55,797	28	0	55,685	13	0	68	3	0	0	0
Colorado School of Mines	150	55,560	3,461	4,424	1,784	571	9,353	0	850	0	33,432	1,685
U. Maine	151	54,376	629	9,064	19,256	65	1,868	243	121	3,471	18,038	1,621
Cleveland State U.	152	53,756	0	0	40,809	232	716	69	353	0	11,055	522
Wichita State U.	153	53,540	0	11	2,632	72	912	375	17	0	46,023	3,498
Rensselaer Polytechnic Institute	154	52,150	4,377	1,673	4,483	1,480	4,184	2,676	101	0	28,960	4,216
Naval Postgraduate School	155	51,870	4,608	6,300	1,655	1,867	8,513	0	4,623	998	20,145	3,161
U. Idaho	156	51,450	985	1,662	33,427	120	771	199	3,073	1,205	8,376	1,632
U. Tennessee, Health Science Center	157	48,264	0	0	48,264	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	158	47,454	1,753	2,460	16,887	71	4,452	135	1,364	0	18,074	2,258
U. Texas, Arlington	159	44,950	2,817	322	7,558	748	8,422	84	43	0	22,163	2,793

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Dakota	160	44,153	336	3,730	15,954	0	739	268	66	598	20,330	2,132
U. Alabama, Tuscaloosa	161	43,017	4,044	1,168	4,483	226	4,720	1,329	1,549	0	19,679	5,819
U. Southern Mississippi	162	42,870	114	21,092	7,241	195	8,527	0	2,799	0	1,823	1,079
Brandeis U.	163	41,440	1,561	12	21,616	401	7,218	3,125	6,882	0	0	625
U. Massachusetts, Lowell	164	41,304	4,051	1,399	4,573	0	11,202	921	3,021	0	14,870	1,267
San Diego State U.	165	41,117	636	1,093	15,009	907	2,992	13,516	997	48	3,851	2,068
U. Louisiana, Lafayette	166	40,044	1,050	1,050	19,960	91	208	0	0	3	3,557	14,125
Oklahoma State U., Stillwater	167	39,873	371	763	17,865	569	2,870	2,900	343	769	11,969	1,454
Northern Arizona U.	168	39,387	698	5,975	24,039	0	3,147	589	212	183	3,649	895
U. Texas, El Paso	169	39,126	5,639	1,251	10,414	1,270	4,257	1,603	1,054	195	11,812	1,631
Michigan Technological U.	170	36,172	1,054	8,015	1,300	359	1,282	130	440	0	23,332	260
Wright State U.	171	35,321	871	127	8,029	72	1,369	1,303	0	0	23,496	54
Saint Louis U.	172	34,419	578	774	29,211	266	1,302	300	183	0	1,549	256
U. Texas, San Antonio	173	34,334	5,470	991	10,733	115	4,702	2,836	1,596	108	5,961	1,822
San Jose State U.	174	34,102	0	7,847	1,268	0	2,035	19,256	80	0	1,575	2,041
U.S. Air Force Academy	175	33,554	490	0	0	0	2,714	0	292	0	29,812	246
Stevens Institute of Technology	176	33,461	3,454	2,846	3	0	1,648	0	0	284	23,906	1,320
Florida A&M U.	177	33,136	90	5,329	18,174	0	1,366	242	0	329	4,492	3,114
Syracuse U.	178	31,861	1,266	1,334	5,108	300	7,140	1,585	3,007	102	7,696	4,323
Indiana U.-Purdue U., Indianapolis	179	31,622	3,307	679	11,548	460	1,374	4,047	3,292	1,026	4,369	1,520
North Dakota State U.	180	31,614	463	139	17,605	150	2,853	1,078	4,244	1,492	3,085	505
Mercer U.	181	31,572	15	0	1,912	0	0	0	20	0	29,625	0
Texas Tech U.	182	31,475	1,160	3,340	4,978	239	4,217	882	470	0	14,399	1,790
Louisiana State U., Health Sciences Center, New Orleans	183	31,381	0	0	31,381	0	0	0	0	0	0	0
Portland State U.	184	31,315	996	1,784	11,523	794	1,937	1,652	1,476	477	4,113	6,563
Boston C.	185	31,038	411	3,871	7,119	1,064	7,098	2,343	3,307	0	0	5,825
William & Mary	186	30,436	1,881	12,158	1,499	242	4,428	234	5,018	0	0	4,976
Old Dominion U.	187	30,330	874	2,793	4,053	952	4,601	828	1,001	0	11,802	3,426
CUNY, City C.	188	30,106	803	1,578	4,054	313	7,007	579	0	0	15,704	68
Howard U.	189	29,256	655	225	15,752	0	4,381	1,280	251	0	6,241	471
U. Nevada, Las Vegas	190	29,252	314	3,541	14,582	15	4,073	240	249	227	4,946	1,065
Rochester Institute of Technology	191	28,092	5,556	0	668	1,503	7,787	43	557	0	7,965	4,013

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Polytechnic Institute	192	27,998	0	0	1,297	0	0	0	0	0	26,696	5
U. Toledo	193	27,770	0	3,227	12,830	36	5,136	50	212	0	5,921	358
U. North Carolina, Charlotte	194	27,618	8,343	666	2,239	820	2,878	284	2,252	0	8,853	1,283
U. Massachusetts, Boston	195	27,575	525	1,478	4,525	14	2,239	2,198	3,481	0	547	12,568
U. Puerto Rico, Medical Sciences Campus	196	27,033	0	136	26,897	0	0	0	0	0	0	0
Texas State U.	197	26,950	768	2,870	2,260	799	1,798	94	3,931	32	746	13,652
Boise State U.	198	26,914	1,216	2,730	7,021	904	2,678	154	1,884	289	8,245	1,793
Lehigh U.	199	26,816	1,521	1,258	3,834	194	2,166	396	0	0	16,205	1,242
SUNY, Downstate Medical Center	200	26,454	0	0	26,454	0	0	0	0	0	0	0
Worcester Polytechnic Institute	201	26,074	7,300	0	954	799	1,603	0	1,580	0	13,084	754
CUNY, Hunter C.	202	26,025	1,474	219	5,303	114	3,552	12,455	521	0	0	2,387
U. North Texas, Health Science Center	203	25,917	0	0	25,461	0	0	0	456	0	0	0
U. Wisconsin-Milwaukee	204	25,354	93	1,862	5,581	3,820	5,010	3,125	2,273	9	2,940	641
U. Denver	205	24,753	99	145	2,721	68	3,373	4,092	1,944	0	2,109	10,202
Brigham Young U., Provo	206	24,632	1,199	122	4,659	331	4,133	219	688	0	11,438	1,843
SUNY, Binghamton U.	207	24,564	2,734	196	2,273	85	7,642	3,526	1,045	0	6,526	537
Illinois Institute of Technology	208	24,244	2,708	356	8,605	389	2,734	0	88	42	9,230	92
Loyola U., Chicago	209	24,018	139	0	21,189	164	610	935	240	0	0	741
SUNY, Upstate Medical U.	210	23,940	0	0	23,940	0	0	0	0	0	0	0
Florida Atlantic U.	211	23,695	1,309	307	11,087	519	1,317	1,167	126	0	6,955	908
U. Nebraska, central administration	212	23,104	1,385	0	12,521	0	0	0	0	0	8,340	858
New Mexico Institute of Mining and Technology	213	22,922	2,748	6,328	255	50	1,348	0	0	0	11,869	324
Missouri U. of Science and Technology	214	22,860	1,337	0	130	218	4,591	134	32	0	16,411	7
Air Force Institute of Technology	215	22,854	1,656	490	0	497	4,973	0	0	0	15,238	0
South Dakota State U.	216	22,531	0	602	16,767	262	1,058	145	879	0	2,674	144
Catholic U. of America	217	22,503	0	0	1,660	0	17,261	237	98	63	2,925	259
Morehouse School of Medicine	218	22,500	0	0	22,500	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	219	22,338	1,567	26	6,945	748	1,163	12	45	0	8,664	3,168
U. Missouri, Kansas City	220	22,320	399	151	13,054	0	1,102	288	25	0	6,902	399
U. South Alabama	221	21,825	3,705	2,048	12,175	79	363	39	326	0	2,624	466
U. North Carolina, Greensboro	222	20,447	323	0	5,045	167	2,612	2,188	244	0	0	9,868
East Carolina U.	223	20,168	213	1,051	12,296	0	1,135	690	832	0	366	3,585

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Merced	224	20,000	116	1,783	3,874	2,472	4,891	204	405	0	5,760	495
Van Andel Research Institute	225	18,538	0	0	18,538	0	0	0	0	0	0	0
U. Memphis	226	18,063	4,277	1,887	3,520	493	1,100	1,164	973	0	2,513	2,136
Southern Methodist U.	227	17,752	290	4,026	1,061	961	2,855	1,150	113	0	5,103	2,193
Loma Linda U.	228	17,457 i	0 i	0 i	17,457 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Northridge	229	17,261	201	1,514	5,678	901	4,750	455	464	1,589	926	783
San Francisco State U.	230	16,331 i	149 i	1,501 i	9,325 i	322 i	1,274 i	315 i	1,309 i	1,201 i	387 i	548 i
Rutgers, State U. New Jersey, Newark	231	16,196	2,269	1,372	7,681	0	1,436	1,293	574	100	0	1,471
American U.	232	16,123	264	216	531	370	3,401	702	6,887	1,120	0	2,632
U. Puerto Rico, Mayaguez	233	15,842	0	3,896	1,426	25	904	0	163	0	9,428	0
Desert Research Institute	234	15,791	0	15,748	43	0	0	0	0	0	0	0
Eastern Virginia Medical School	235	15,748	0	0	15,748	0	0	0	0	0	0	0
Rowan U.	236	15,551	256	227	6,151	0	407	397	222	0	7,616	275
Ohio U.	237	15,543	103	677	5,296	76	3,467	1,224	169	0	4,454	77
U. Maryland Center for Environmental Science	238	15,498	0	8,462	5,850	0	174	0	59	35	42	876
U. Alaska, Anchorage	239	15,290	150	6,432	4,779	0	154	181	1,564	1,224	644	162
Tuskegee U.	240	15,122	409	0	6,837	1,240	166	0	2,109	184	4,177	0
Kent State U.	241	15,004	605	439	3,056	300	3,715	2,684	949	380	1,278	1,598
Morgan State U.	242	14,101	519	3,351	4,679	105	393	82	40	0	4,847	85
U. Puerto Rico, Rio Piedras	243	14,071	75	3,108	2,911	102	3,427	0	127	3,747	270	304
Jackson State U.	244	13,662	418	189	1,848	84	9,305	25	34	395	1,262	102
U. North Texas, Denton	245	13,653	1,262	873	2,446	202	2,329	900	202	0	3,805	1,634
U. Hawaii, system office	246	13,367	1,694	11,673	0	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	247	13,349	204	3,609	4,521	0	1,250	0	58	11	2,800	896
Marquette U.	248	13,187	324	0	5,298	1,217	1,649	202	0	0	4,291	206
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	13,187	131	346	2,291	9	844	88	83	2	1,580	7,813
U. Texas Rio Grande Valley	250	13,093	252	745	7,403	196	2,215	0	10	8	1,761	503
Texas Tech U., Health Sciences Center	251	13,043	0	0	12,977	0	0	0	0	0	0	66
U. South Dakota	252	13,034	665	0	9,733	0	1,968	80	13	0	440	135
Albany Medical C.	253	12,940	0	0	12,940	0	0	0	0	0	0	0
North Carolina Central U.	254	12,787	12	264	6,664	0	2,888	0	126	0	1,929	904
Southern Illinois U., Carbondale	255	12,735	33	593	9,899	0	1,270	114	94	552	180	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Queens C.	256	12,726	135	322	9,378	160	1,041	1,087	85	0	0	518
Delaware State U.	257	12,689 i	0 i	161 i	8,480 i	474 i	1,683 i	0 i	175 i	194 i	1,269 i	253 i
U.S. Naval Academy	258	12,577	1,413	771	0	799	2,096	0	0	0	7,202	296
Meharry Medical C.	259	12,573	0	0	12,573	0	0	0	0	0	0	0
U. West Florida	260	12,369	460	322	548	0	423	113	0	0	196	10,307
Missouri State U.	261	12,310	48	72	1,349	0	380	24	263	0	10,096	78
New York Medical C.	262	12,106	0	0	12,106	0	0	0	0	0	0	0
California State U., Long Beach	263	12,014	42	492	3,635	673	2,502	1,410	363	196	2,533	168
U. of the Virgin Islands	264	11,787	148	2,990	5,976	694	908	0	228	0	834	9
U. Baltimore	265	11,748	10	0	0	0	45	0	969	0	0	10,724
California State U., San Marcos	266	11,547	987	0	896	82	1,667	967	757	2,546	2,408	1,237
Embry-Riddle Aeronautical U.	267	11,542	406	807	17	23	1,859	0	336	0	7,943	151
Louisiana State U., Health Sciences Center, Shreveport	268	11,452	0	0	11,452	0	0	0	0	0	0	0
Hampton U.	269	11,278	699	3,454	1,745	226	3,142	0	710	0	866	436
Ponce Health Sciences U.	270	11,228	0	0	11,228	0	0	0	0	0	0	0
Marshall U.	271	11,078	254	201	10,082	0	99	0	0	0	434	8
Florida Institute of Technology	272	10,999	3,223	780	423	71	2,109	537	0	0	3,305	551
Northeast Ohio Medical U.	273	10,684	0	0	10,649	0	0	0	35	0	0	0
South Dakota School of Mines and Technology	274	10,659	49	0	0	339	1,384	0	0	0	8,887	0
U. Akron	275	10,574	0	202	837	60	4,238	57	19	0	5,096	65
Miami U.	276	10,473	298	872	4,845	139	408	1,212	388	0	667	1,644
Nova Southeastern U.	277	10,452	125	5,381	4,572	0	0	374	0	0	0	0
California Polytechnic State U., San Luis Obispo	278	10,178	362	963	2,989	2,430	1,202	0	481	0	1,338	413
U. Nebraska, Omaha	279	9,996	1,827	0	4,927	162	0	348	453	50	859	1,370
Charles R. Drew U. of Medicine and Science	280	9,863	0	0	9,863	0	0	0	0	0	0	0
U. Guam	281	9,722	0	2,585	6,625	0	0	0	154	0	0	358
Xavier U. Louisiana	282	9,680	87	0	2,371	0	7,077	28	0	0	65	52
Texas A&M U.-Kingsville	283	9,610	0	284	5,908	0	108	86	0	37	1,830	1,357
Prairie View A&M U.	284	9,249	292	5	5,164	0	489	0	0	0	3,184	115
CUNY, Advanced Science Research Center	285	9,208	0	56	4,166	0	3,018	0	0	0	1,968	0
Langston U.	286	9,004	0	0	8,473	2	109	0	0	0	0	420
Baylor U.	287	8,851	97	496	3,385	284	2,110	384	60	597	1,271	167

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Graduate School of Public Health and Health Policy	288	8,722	0	0	7,444	0	0	1,278	0	0	0	0
Illinois State U.	289	8,719	23	394	2,405	119	511	0	187	0	0	5,080
Tennessee State U.	290	8,707	139	0	6,694	104	159	243	6	0	1,142	220
Rosalind Franklin U. of Medicine and Science	291	8,504	0	0	8,421	0	0	83	0	0	0	0
U.S. Military Academy	292	8,406	469	98	295	0	814	12	19	1,109	5,252	338
California State U., Los Angeles	293	8,380	0	0	1,747	10	4,255	25	1,245	0	806	292
U. Maryland, Eastern Shore	294	8,084	0	3,454	2,567	0	1,243	0	695	0	125	0
Northern Illinois U.	295	8,030	332	375	401	24	3,713	732	202	0	246	2,005
Chapman U.	296	7,850	0	206	4,431	0	1,655	842	136	0	43	537
Idaho State U.	297	7,849	651	1,248	1,949	0	889	247	218	0	2,491	156
SUNY, C. of Environmental Science and Forestry	298	7,809	23	493	6,831	0	136	0	25	52	158	91
U. Texas Health Science Center, Tyler	299	7,732	0	0	7,732	0	0	0	0	0	0	0
St. Edward's U.	300	7,700	700	409	1,575	600	994	0	290	0	0	3,132
Teachers C., Columbia U.	301	7,614	1,284	0	1,856	0	0	618	3,856	0	0	0
Creighton U.	302	7,583	396 i	238 i	5,651 i	108 i	806 i	116 i	129 i	0 i	0 i	139 i
Central Michigan U.	303	7,450	0	177	4,396	52	2,044	309	130	237	84	21
East Tennessee State U.	304	7,329	0	0	6,785	123	315	40	14	0	52	0
U. Arkansas, Little Rock	305	7,289	2,691	0	2,187	0	828	0	4	0	950	629
Louisiana Tech U.	306	7,167	726	0	619	238	323	92	420	0	4,582	167
Norfolk State U.	307	7,148	4,921	0	114	48	726	0	0	0	1,312	27
Clarkson U.	308	7,095	421	21	496	571	767	0	16	0	4,584	219
Alcorn State U.	309	7,023	0	0	4,090	0	0	0	2,807	0	126	0
U. North Carolina, Wilmington	310	6,783	130	1,369	3,327	48	336	179	260	0	335	799
U. Massachusetts, Dartmouth	311	6,506	448	2,680	253	239	275	0	1	0	2,170	440
Tennessee Technological U.	312	6,471	1,364	22	1,282	0	914	0	0	0	2,756	133
U. Minnesota, Duluth	313	6,454	163	1,609	4,023	108	303	0	7	0	180	61
Bowling Green State U.	314	6,397	67	1,330	652	140	1,331	167	868	0	0	1,842
U. Missouri, Saint Louis	315	6,146	3	0	3,833	235	1,229	48	492	0	0	306
Naval War C.	316	5,944	0	0	0	0	0	0	724	0	0	5,220
California State U., San Bernardino	317	5,886	401	86	435	427	1,448	594	183	0	0	2,312
California State U., Sacramento	318	5,693	105	716	434	0	196	90	113	88	3,150	801
Alabama A&M U.	319	5,643	234 i	0 i	3,305 i	56 i	481 i	126 i	152 i	0 i	1,078 i	211 i

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia State U.	320	5,642	0	0	3,775	645	0	0	0	0	210	1,012
California State Polytechnic U., Pomona	321	5,514	607	38	1,692	102	1,393	0	0	327	1,141	214
U. South Florida, Saint Petersburg	322	5,344	0	0	236	0	56	637	0	0	0	4,415
Clark Atlanta U.	323	5,324	166	0	3,468	157	1,422	0	0	0	0	111
Florida Gulf Coast U.	324	5,304	41	1,344	636	149	344	0	78	0	47	2,665
CUNY, John Jay C. of Criminal Justice	325	5,297	193	0	48	5	405	1,821	0	0	0	2,825
U. Hawaii, Hilo	326	5,274	1	871	2,989	863	214	0	116	220	0	0
DePaul U.	327	5,156	1,448	76	313	0	207	2,974	6	0	0	132
Oakland U.	328	5,068	482	0	2,266	34	1,852	173	18	0	233	10
U. New England	329	5,064	0	681	4,383	0	0	0	0	0	0	0
Duquesne U.	330	4,981	0	290	3,359	120	664	0	0	0	146	402
Villanova U.	331	4,921	179	460	358	2	1,658	444	0	0	1,375	445
Morehouse C.	332	4,825	1,141	0	120	166	1,517	42	3	1,697	0	139
Fort Valley State U.	333	4,806	0	0	4,492	158	72	0	0	0	84	0
Sam Houston State U.	334	4,764	0	0	637	319	414	211	863	0	0	2,320
Arkansas State U., Jonesboro	335	4,712	158	0	3,344	0	753	35	52	226	144	0
U. Tulsa	336	4,697	2,531	76	295	0	114	7	145	0	1,387	142
CUNY, Brooklyn C.	337	4,651	356	18	1,919	220	845	1,027	0	0	0	266
National Defense U.	338	4,583	0	0	200	0	0	0	2,383	0	0	2,000
U. North Florida	339	4,568	51	0	310	0	374	0	128	0	304	3,401
Winston-Salem State U.	340	4,498	443	0	2,043	0	496	252	0	0	0	1,264
California State U., Bakersfield	341	4,486	0	118	70	2,451	29	372	25	0	1,179	242
Western U. of Health Sciences	341	4,486	0	0	4,055	0	0	0	0	0	0	431
Kentucky State U.	343	4,456	32	0	4,299	125	0	0	0	0	0	0
Wellesley C.	344	4,441	430	154	1,326	240	251	229	761	0	633	417
U. Arkansas, Pine Bluff	345	4,393	0	0	3,975	0	418	0	0	0	0	0
Montana Technological U.	346	4,322	0	725	339	0	97	0	0	0	3,161	0
Wesleyan U.	347	4,305	0	531	382	390	1,540	692	24	0	0	746
U. Detroit Mercy	348	4,226	0	0	4,002	0	0	124	0	0	75	25
Tarleton State U.	349	4,139	0	428	3,534	2	0	0	0	175	0	0
Rhode Island C.	350	4,128	60	0	504	0	356	155	27	0	0	3,026
California State U., Fullerton	351	4,121	33	145	1,896	0	1,003	66	33	392	534	19

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
West Virginia State U.	352	3,993	99	0	3,540	0	323	0	0	0	31	0
Western Washington U.	353	3,966	274	760	243	217	989	127	173	580	475	128
Dakota State U.	354	3,957	3,909	0	48	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	355	3,915	873	0	552	81	0	78	16	38	2,277	0
California State U., Monterey Bay	356	3,889	734	867	2,140	148	0	0	0	0	0	0
U. New Orleans	357	3,868	637	897	148	0	782	0	795	232	250	127
Fordham U.	358	3,831	164	0	883	66	294	1,365	62	0	0	997
Fisk U.	359	3,811	0	0	3,585	12	212	0	2	0	0	0
South Carolina State U.	360	3,796 i	104 i	0 i	1,367 i	0 i	965 i	0 i	0 i	0 i	687 i	673 i
Montclair State U.	361	3,782	117	499	1,323	327	263	174	63	0	0	1,016
U. of Health Sciences and Pharmacy in St. Louis	362	3,767	0	0	3,767	0	0	0	0	0	0	0
Lincoln U., Jefferson City	363	3,636	0	0	3,351	150	26	0	4	105	0	0
U. Colorado Colorado Springs	364	3,508	1,023	150	705	11	69	226	46	3	877	398
Southern Illinois U., Edwardsville	365	3,467	39	461	1,232	212	231	0	19	130	240	903
Clark U.	366	3,350	47	306	1,502	0	747	93	655	0	0	0
Youngstown State U.	367	3,308	0	0	0	1	327	12	32	0	2,818	118
Western Kentucky U.	368	3,265	0	254	1,385	11	1,072	176	11	0	68	288
CUNY, Lehman C.	369	3,197	0	35	136	259	2,021	0	163	0	0	583
Texas Christian U.	370	3,168	101	197	228	2	388	114	121	1,681	8	328
California State U., Fresno	371	3,117	75	116	823	287	868	34	275	0	526	113
Central State U.	372	3,097	0	125	2,444	37	6	0	0	319	166	0
C. Charleston	373	3,087	90	857	619	0	573	0	0	575	67	306
U. Washington, Tacoma	374	3,075	696	1,861	161	47	0	0	75	0	59	176
Middle Tennessee State U.	375	3,062	204	0	1,080	0	412	58	66	0	76	1,166
Toyota Technological Institute, Chicago	376	3,038	3,038	0	0	0	0	0	0	0	0	0
MGH Institute of Health Professions	377	3,014	0	0	3,014	0	0	0	0	0	0	0
Pace U.	378	2,997	903	0	753	0	0	0	0	0	464	877
Southern U. and A&M C., Baton Rouge	379	2,996	189	0	336	0	466	0	216	0	1,360	429
Texas Southern U.	380	2,941	148	176	1,804	204	527	0	0	0	82	0
U. Washington, Bothell	381	2,815	41	371	558	31	156	0	0	103	0	1,555
Barnard C.	382	2,800	60	45	489	22	805	1,198	61	0	0	120
U. Central del Caribe	383	2,743	0	0	2,743	0	0	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Seton Hall U.	384	2,725	0	0	138	0	401	0	0	0	0	2,186
Haverford C.	385	2,680	39	103	109	65	2,259	93	12	0	0	0
U. of the District of Columbia	386	2,664	79	41	235	277	0	0	0	0	1,388	644
Smith C.	387	2,650	328	0	881	121	264	164	0	0	725	167
Oklahoma State U., Center for Health Sciences	388	2,618	0	0	2,469	0	0	87	0	0	46	16
James Madison U.	389	2,609	18	508	618	104	531	0	8	0	186	636
Eastern Michigan U.	390	2,598	0	18	2,234	37	126	0	3	0	102	78
Pacific U.	391	2,596	0	0	1,597	9	29	0	84	0	0	877
Alabama State U.	392	2,582	0	0	1,989	0	60	0	0	0	533	0
CUNY, Graduate Center	393	2,561	0	0	87	23	435	297	1,334	0	30	355
California State U., Chico	394	2,520	10	395	380	10	150	0	385	0	613	577
Northwest Indian C.	395	2,497 i	1 i	1,033 i	103 i	0 i	0 i	0 i	1,044 i	0 i	0 i	316 i
Salisbury U.	396	2,413	57	91	32	0	21	0	3	0	0	2,209
U. North Carolina, Asheville	397	2,405	310	36	797	0	687	18	0	0	0	557
Humboldt State U.	398	2,399	8	450	1,636	0	76	0	76	0	153	0
U. San Diego	399	2,398	0	152	65	141	837	106	61	0	686	350
Ball State U.	400	2,397	258	0	1,315	35	315	64	303	0	0	107
California State U., East Bay	401	2,348	61	63	212	0	444	26	171	0	41	1,330
U. South Carolina, Aiken	402	2,328	0	119	870	0	8	0	0	0	1,331	0
CUNY, C. Staten Island	403	2,295	65	0	377	513	770	284	4	0	249	33
U. Michigan, Dearborn	404	2,264	0	0	283	110	26	0	0	144	1,681	20
U. Southern Maine	405	2,231	0	0	94	0	0	0	2,034	0	0	103
Johnson C. Smith U.	406	2,230	11	0	412	0	300	0	0	0	364	1,143
U. Wisconsin-Stevens Point	407	2,193	0	3	2,058	0	85	0	0	0	47	0
Lamar U.	408	2,146	14	0	221	54	20	0	10	0	838	989
Spelman C.	409	2,136	34	0	624	48	713	588	129	0	0	0
Tougaloo C.	410	2,102	0	0	1,741	0	361	0	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	411	2,085	0	0	2,085	0	0	0	0	0	0	0
U. Louisiana, Monroe	412	2,025	0	39	1,788	0	55	0	143	0	0	0
Northeastern Illinois U.	413	2,018	39	50	1,122	53	66	0	48	0	0	640
Towson U.	414	2,010	488	667	374	50	187	71	162	0	0	11
Purdue U., Northwest	415	1,996	491	0	176	0	168	0	4	2	1,128	27

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kennesaw State U.	416	1,983	105	0	933	4	558	11	11	0	74	287
Bowie State U.	417	1,967	682	0	414	0	272	0	0	0	0	599
U. Oklahoma, Tulsa	418	1,953	0	0	493	0	0	0	0	0	1,066	394
Rutgers, State U. New Jersey, Camden	419	1,952	1,789	0	0	84	0	0	79	0	0	0
Albany C. of Pharmacy and Health Sciences	420	1,938	0	0	1,938	0	0	0	0	0	0	0
Murray State U.	421	1,929	0	19	1,539	198	155	0	0	0	0	18
Claflin U.	422	1,907	500	37	854	13	258	0	75	0	170	0
William Paterson U.	423	1,896	0	414	103	0	0	70	485	0	0	824
Bates C.	424	1,885	113	91	1,128	8	318	154	73	0	0	0
U. Northern Iowa	425	1,881	0	0	129	0	796	0	867	0	0	89
Bowdoin C.	426	1,862	72	493	869	24	184	158	62	0	0	0
U. Northern Colorado	427	1,853	0	247	549	117	19	140	161	0	0	620
Gallaudet U.	428	1,841	319	4	383	0	0	137	56	0	0	942
Grand Valley State U.	429	1,831	0	287	935	94	350	37	80	0	0	48
Skidmore C.	430	1,827	0	577	799	0	250	201	0	0	0	0
Saginaw Valley State U.	431	1,809	1	0	1,083	587	21	0	12	0	105	0
Reed C.	432	1,806	61	0	1,180	151	150	91	2	0	0	171
St. John's U., New York	433	1,805	0	0	1,375	64	325	41	0	0	0	0
Savannah State U.	434	1,804	0	728	234	0	50	0	0	153	639	0
Western Illinois U.	435	1,801	0	14	1,636	0	60	0	0	0	71	20
Georgia Southern U.	436	1,790	16	115	681	30	607	0	9	0	301	31
Amherst C.	437	1,775	0	0	608	225	892	50	0	0	0	0
Harvey Mudd C.	438	1,748	640	0	444	113	297	0	0	79	175	0
Western Carolina U.	439	1,707	0	255	750	3	118	0	198	0	291	92
Texas Tech U., Health Sciences Center, El Paso	440	1,703	0	0	1,675	0	0	0	0	0	0	28
Central Washington U.	441	1,701	0	1,161	198	52	255	0	1	0	34	0
Texas Woman's U.	442	1,700	14	0	805	0	49	0	14	0	0	818
Hawaii Pacific U.	443	1,699	72	183	1,224	14	0	0	193	0	13	0
Bucknell U.	444	1,693 i	23 i	21 i	235 i	214 i	237 i	39 i	2 i	64 i	512 i	346 i
SUNY, C. of Optometry	445	1,688	0	0	1,688	0	0	0	0	0	0	0
Morehead State U.	446	1,674	0	7	223	0	0	0	219	0	1,208	17
U. Richmond	447	1,628	0	43	648	21	286	231	359	0	0	40

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Troy U.	448	1,591	0	47	269	4	1,216	0	0	0	0	55
CUNY, New York City C. of Technology	449	1,585	177	0	394	0	200	0	0	235	353	226
Occidental C.	450	1,567	236	630	289	58	340	9	5	0	0	0
Winthrop U.	451	1,563	0	0	465	0	231	0	1	0	0	866
Touro U.	452	1,558	0	0	1,546	0	0	0	0	0	0	12
Middlebury C.	453	1,546	117	239	483	0	388	245	65	9	0	0
New York Institute of Technology	454	1,542	132	0	981	0	0	0	0	0	372	57
West Texas A&M U.	454	1,542	116	62	409	0	166	0	0	0	500	289
Bryn Mawr C.	456	1,531	226	0	100	114	388	0	5	0	0	698
Santa Clara U.	457	1,522	29	0	503	20	445	8	89	0	393	35
CUNY, York C.	458	1,513	0	462	450	0	510	0	58	0	0	33
CUNY, Baruch C.	459	1,470	46	137	117	321	296	220	333	0	0	0
Appalachian State U.	460	1,469	233	242	465	5	172	91	167	0	0	94
Northern Kentucky U.	461	1,462	0	0	552	71	514	277	1	0	0	47
Elizabeth City State U.	462	1,455	101	176	428	287	0	0	0	0	0	463
U. Central Oklahoma	463	1,444 i	132 i	0 i	288 i	93 i	651 i	0 i	0 i	101 i	1 i	178 i
Mount Holyoke C.	464	1,442	140	0	333	147	471	298	53	0	0	0
U. New Haven	465	1,440	562	104	9	0	142	22	363	0	238	0
California State U., Dominguez Hills	466	1,433	633	0	81	53	393	63	137	0	0	73
U. Central Arkansas	467	1,421	381	0	357	15	490	0	0	131	0	47
Davidson C.	468	1,411	0	0	200	61	157	758	78	0	0	157
Palmer C. of Chiropractic, Davenport	469	1,400	0	0	1,400	0	0	0	0	0	0	0
U. Houston-Downtown	470	1,392	86	82	0	9	0	0	0	69	28	1,118
U. Wisconsin-Superior	471	1,382	0	30	1,343	0	0	0	0	0	9	0
U. of the Pacific	472	1,375	0	0	654	0	307	0	0	312	89	13
Christopher Newport U.	473	1,365	0	0	160	0	571	37	13	0	566	18
Long Island U.	474	1,349	0	15	1,161	0	51	50	0	0	0	72
Mills C.	475	1,341	0	0	0	0	0	0	0	0	0	1,341
U. Wisconsin-Oshkosh	476	1,336 i	52 i	79 i	737 i	13 i	107 i	28 i	33 i	0 i	240 i	47 i
Indiana U. Pennsylvania	477	1,309	0	107	667	0	268	113	64	2	0	88
Seattle U.	478	1,303	0	42	86	159	58	0	132	0	10	816
Black Hills State U.	479	1,287	452	0	691	0	91	0	0	0	0	53

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Stanislaus	480	1,284	331	0	752	194	0	4	3	0	0	0
U. Puerto Rico, Humacao	481	1,279	0	0	255	1	922	101	0	0	0	0
Lewis and Clark C.	482	1,268	27	164	538	45	494	0	0	0	0	0
U. Nebraska, Kearney	483	1,259	0	0	1,035	0	142	19	0	63	0	0
Stephen F. Austin State U.	484	1,257	0	1	619	128	0	0	131	0	5	373
SUNY, Buffalo State	485	1,241	0	821	176	91	2	27	123	0	0	1
Carleton C.	486	1,236	33	670	82	41	248	86	76	0	0	0
Fort Lewis C.	487	1,228	0	34	240	0	435	0	42	0	477	0
Texas A&M U.-Commerce	488	1,226	24	0	26	0	746	164	44	0	0	222
Jacksonville State U.	489	1,216	3	0	16	0	0	0	0	0	11	1,186
Coastal Carolina U.	490	1,211	56	998	157	0	0	0	0	0	0	0
U. Puerto Rico, Cayey	491	1,210	0	0	604	0	185	0	330	91	0	0
Trinity U.	492	1,207	15	3	296	68	604	209	0	0	0	12
Franklin and Marshall C.	493	1,202	0	37	502	22	350	12	279	0	0	0
Dillard U.	494	1,200	0	0	502	0	662	0	0	0	0	36
Colorado State U., Pueblo	495	1,161	0	0	1,108	6	0	0	0	0	47	0
Hope C.	496	1,155	0	0	282	58	648	0	0	0	138	29
Eastern Washington U.	497	1,153	0	58	391	15	66	0	562	0	0	61
U. of the Sciences Philadelphia	498	1,126	0	0	808	0	318	0	0	0	0	0
Pomona C.	499	1,123	95	103	180	82	490	35	138	0	0	0
Keck Graduate Institute	500	1,113 i	57 i	0 i	806 i	15 i	0 i	0 i	0 i	0 i	215 i	20 i
Loyola Marymount U.	501	1,105	0	32	261	117	140	447	0	0	0	108
U. Alaska, Southeast	502	1,098	0	145	521	0	30	0	0	366	30	6
Williams C.	503	1,086 i	58 i	99 i	396 i	227 i	253 i	0 i	53 i	0 i	0 i	0 i
Hobart and William Smith Colleges	504	1,072	0	127	730	83	132	0	0	0	0	0
Vassar C.	505	1,055	273	0	16	350	160	196	60	0	0	0
New School	506	1,050	0	414	12	0	0	444	0	0	116	64
Saint Joseph's U.	507	1,047	118	0	460	0	0	54	143	0	0	272
Roger Williams U.	508	1,045	0	369	166	13	98	198	0	0	0	201
Keene State C.	509	1,043	0	16	966	0	53	0	0	0	8	0
Swarthmore C.	510	1,041	6	0	439	63	366	64	56	17	0	30
New Mexico Highlands U.	511	1,034	134	189	170	0	541	0	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern Connecticut State U.	512	1,026	0	1	141	0	579	164	0	0	0	141
Trinity C., Hartford	513	1,019	0	0	903	52	5	0	46	0	13	0
Fayetteville State U.	514	1,008	131	0	408	0	260	0	0	0	0	209
Erikson Institute	515	1,006	0	0	0	0	0	0	0	0	0	1,006
Hofstra U.	516	997	3	3	308	0	4	0	0	0	288	391
Texas A&M International U.	517	986	0	19	123	0	38	0	0	733	28	45
Ithaca C.	518	981	39	4	408	64	301	0	165	0	0	0
U. Illinois, Springfield	519	976	0	0	0	0	12	0	959	0	0	5
Doane U.	520	958 i	175 i	0 i	514 i	0 i	62 i	0 i	0 i	0 i	1 i	206 i
C. New Jersey	521	951	194	0	328	4	354	0	0	0	8	63
SUNY, C. Plattsburgh	522	950	0	391	429	0	110	0	0	0	0	20
SUNY, Geneseo	522	950	0	104	58	35	624	102	27	0	0	0
Indiana State U.	524	949	0	103	339	23	160	0	0	10	0	314
Alfred U.	525	947	0	1	52	0	7	0	0	0	887	0
U. Ana G. Mendez, Gurabo	526	946	0	0	556	0	25	0	0	0	365	0
Midwestern U.	527	936	0	0	936	0	0	0	0	0	0	0
Sonoma State U.	527	936	0	529	178	91	123	0	0	15	0	0
Colgate U.	529	918	165	295	84	56	248	0	10	0	0	60
Providence C.	530	913	0	124	347	0	372	70	0	0	0	0
National U. of Natural Medicine	531	912	0	0	912	0	0	0	0	0	0	0
Central Connecticut State U.	532	901	0	85	73	0	60	0	206	0	94	383
U. Wisconsin-Green Bay	533	890	35 i	53 i	490 i	9 i	72 i	18 i	23 i	0 i	159 i	31 i
Calvin U.	534	888 i	10 i	0 i	431 i	31 i	372 i	0 i	0 i	0 i	20 i	24 i
Liberty U.	535	886	0	0	44	0	0	0	0	0	442	400
CUNY, system office	536	884	84	39	84	0	0	0	0	0	662	15
Southeastern Louisiana U.	536	884	5	0	473	0	179	0	224	0	3	0
Stockton U.	538	872	0	578	85	0	0	0	0	0	0	209
U. of the Incarnate Word	539	869	0	0	545	148	176	0	0	0	0	0
U. Hartford	540	854	5	0	101	131	0	0	0	0	605	12
Furman U.	541	847	0	7	356	0	358	0	126	0	0	0
Suffolk U.	542	844	0	28	29	0	97	584	0	28	76	2
Albany State U.	543	836	0	4	445	0	54	0	0	0	3	330

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-La Crosse	544	817	36	6	402	77	205	0	83	0	0	8
Polytechnic U. Puerto Rico	545	813	813	0	0	0	0	0	0	0	0	0
Claremont Graduate U.	546	809	98	0	0	70	0	284	351	0	0	6
Colby C.	546	809	14	175	289	10	299	0	0	0	0	22
Salish Kootenai C.	548	802	0	0	172	0	222	0	0	0	0	408
Grambling State U.	549	787	0	0	0	3	356	0	0	0	0	428
New England C. of Optometry	550	785	0	0	785	0	0	0	0	0	0	0
SUNY, C. Brockport	551	781	0	261	444	0	41	0	35	0	0	0
Kean U.	552	775	417	105	0	0	0	0	0	0	0	253
Saint Michael's C.	552	775	0	0	627	0	42	106	0	0	0	0
U. Texas, Tyler	554	774	26	0	677	20	0	0	4	0	47	0
Yeshiva U.	555	772	0	0	486	0	286	0	0	0	0	0
Claremont McKenna C.	556	771	0	29	396	78	144	94	0	0	0	30
Fort Hays State U.	557	764	0	288	388	0	85	0	0	0	0	3
U. Texas of the Permian Basin	558	757	0	0	328	0	0	6	320	0	82	21
Lafayette C.	559	755	85	0	50	56	299	116	0	0	139	10
Oberlin C.	560	743	80	51	252	0	262	51	47	0	0	0
Citadel Military C. South Carolina	561	736	378	0	49	0	0	30	0	0	13	266
West Chester U. Pennsylvania	562	724	0	0	410	60	73	32	0	0	0	149
Kenyon C.	563	714	0	0	520	0	194	0	0	0	0	0
Pepperdine U.	564	693	0	0	121	0	0	103	37	0	0	432
Mercyhurst U.	565	690 i	36 i	22 i	514 i	10 i	73 i	10 i	12 i	1 i	0 i	12 i
Stonehill C.	566	674	0	393	0	0	0	0	0	0	0	281
Biola U.	567	662 i	30 i	1 i	423 i	8 i	60 i	8 i	9 i	0 i	113 i	10 i
U. of Mary Washington	568	660	15	38	85	0	54	12	3	0	0	453
Macalester C.	569	647	0	268	121	96	149	0	13	0	0	0
U. Wisconsin-Eau Claire	569	647	0	4	30	35	456	122	0	0	0	0
Grinnell C.	571	644	76	0	29	72	410	0	30	0	0	27
Benedict C.	572	635	98	66	42	44	146	0	0	0	237	2
U. Houston-Clear Lake	573	632	96	0	20	0	377	109	30	0	0	0
California State U., Maritime Academy	574	621	0	0	0	0	0	0	0	0	621	0
La Sierra U.	575	618	0	0	4	0	0	0	0	0	0	614

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Milwaukee School of Engineering	576	613	0	0	0	0	0	0	0	0	613	0
Midwestern State U.	577	599	0	107	480	6	0	0	0	0	0	6
Northwestern State U. Louisiana	578	598	0	0	1	0	0	0	597	0	0	0
Purdue U., Fort Wayne	579	589	0	0	117	19	123	104	4	0	194	28
CUNY, Medgar Evers C.	580	588	0	1	314	44	179	0	0	0	0	50
U. North Carolina, general administration	581	572	10	0	0	0	0	0	0	0	552	10
Kettering U.	582	568	0	0	4	0	305	0	0	0	114	145
Edward Via C. of Osteopathic Medicine	583	566	0	0	566	0	0	0	0	0	0	0
Whitman C.	584	558	0	0	302	0	241	0	15	0	0	0
Lipscomb U.	585	557 i	26 i	0 i	353 i	7 i	52 i	7 i	8 i	0 i	95 i	9 i
Eastern Kentucky U.	586	554	0	1	378	24	61	8	0	0	52	30
California State U., Channel Islands	587	553	0	0	151	171	0	0	0	191	0	40
Pennsylvania State U., Behrend	588	543	37	104	15	15	31	0	4	0	337	0
U. North Georgia	589	542	37	55	91	0	0	0	0	0	0	359
Minnesota State U., Mankato	590	525	0	0	205	0	2	59	15	0	244	0
U. Ana G. Mendez, Carolina	591	520	0	0	206	0	0	0	0	0	314	0
SUNY, Oswego	592	492	52	43	190	0	182	0	0	12	13	0
U. Massachusetts, central office	593	488	0	0	403	0	0	0	7	0	0	78
U. Wisconsin-River Falls	593	488	55	0	110	0	258	0	0	0	65	0
Connecticut C.	595	483	83	0	48	0	113	70	169	0	0	0
Sul Ross State U.	596	481	0	0	463	0	0	0	18	0	0	0
Pittsburg State U.	597	477	0	0	306	0	22	0	99	0	50	0
Austin Peay State U.	598	475	0	52	410	0	13	0	0	0	0	0
Union C., Schenectady	599	462	3	130	13	13	222	0	0	0	81	0
St. Cloud State U.	600	459	0	0	126	0	3	0	12	0	0	318
Pennsylvania State U., Harrisburg	601	451	2	3	381	0	0	0	7	0	44	14
U. of St. Thomas (MN)	602	450	17	0	242	40	90	16	26	0	19	0
Des Moines U.	603	449	0	1	265	0	0	0	159	0	0	24
Northern Michigan U.	604	446	0	81	127	0	0	157	53	0	0	28
Weber State U.	605	424	70	91	28	0	95	0	0	0	22	118
Philadelphia C. of Osteopathic Medicine	606	422	0	0	422	0	0	0	0	0	0	0
West Virginia School of Osteopathic Medicine	607	419	0	0	414	0	0	0	0	0	0	5

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lawrence Technological U.	608	405	63	0	0	0	6	0	0	0	227	109
U. Puget Sound	609	401	0	0	223	0	174	0	0	0	0	4
Willamette U.	609	401	0	0	35	0	66	121	0	0	0	179
Manhattan C.	611	398	0	0	10	147	71	0	0	0	170	0
Fairfield U.	612	365	0	0	191	74	100	0	0	0	0	0
Dine C.	613	347	0	0	347	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	614	342	0	0	342	0	0	0	0	0	0	0
U. Wisconsin-Platteville	615	336 i	12 i	28 i	117 i	8 i	36 i	6 i	18 i	0 i	67 i	44 i
Oregon Institute of Technology	616	326	0	56	67	0	0	0	0	0	203	0
Wheaton C., Wheaton	617	324	0	116	142	0	66	0	0	0	0	0
Marshall B. Ketchum U.	618	323 i	0 i	0 i	323 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Gettysburg C.	619	320	0	0	13	5	109	0	193	0	0	0
Merrimack C.	620	306	0	0	168	0	0	0	0	60	78	0
Franklin W. Olin C. of Engineering	621	293	0	0	0	0	0	0	0	0	255	38
C. Wooster	622	283	0	21	81	55	126	0	0	0	0	0
U. Michigan, Flint	623	276	0	0	118	0	0	0	0	102	0	56
Albion C.	624	272	0	0	0	0	272	0	0	0	0	0
California Lutheran U.	625	271	0	0	144	0	59	0	0	0	0	68
St. Bonaventure U.	626	265	0	0	102	0	38	0	0	47	0	78
Andrews U.	627	263	0	35	0	0	191	0	0	0	37	0
Florida Polytechnic U.	628	252	64	0	29	0	0	0	0	0	159	0
Rhode Island School of Design	629	236 i	20 i	0 i	170 i	0 i	0 i	0 i	16 i	0 i	0 i	30 i
Bradley U.	630	235	0	0	20	0	1	0	0	0	214	0
St. Olaf C.	631	230	132	0	40	23	13	9	10	0	0	3
New Jersey City U.	632	223	24	0	57	42	82	12	0	0	0	6
Dickinson C.	633	222	0	0	97	0	16	40	1	0	0	68
U. California, Office of the President	634	217	0	0	217	0	0	0	0	0	0	0
U. Minnesota, Morris	635	213	0	176	0	37	0	0	0	0	0	0
Colorado C.	636	196	0	52	20	0	15	0	4	0	0	105
Heidelberg U.	637	188	0	188	0	0	0	0	0	0	0	0
Framingham State U.	638	179	0	0	0	0	169	10	0	0	0	0

TABLE 24

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Connecticut State U.	639	177	0	0	177	0	0	0	0	0	0	0
Alaska Pacific U.	640	148	0	83	38	0	0	0	0	0	0	27
U. San Francisco	640	148	0	67	0	16	0	0	65	0	0	0
Hamilton C.	642	144	0	6	26	0	3	0	26	0	0	83
Azusa Pacific U.	643	128	0	0	116	0	12	0	0	0	0	0
Monmouth U.	644	110	0	109	0	0	0	0	1	0	0	0
Elon U.	645	106	0	0	16	0	0	43	22	0	25	0
Columbus State U.	646	93	75	0	18	0	0	0	0	0	0	0
Emerson C.	647	84	0	0	0	0	0	0	84	0	0	0
Roseman U. of Health Sciences	648	56	0	0	56	0	0	0	0	0	0	0
C. of Saint Benedict	649	43 i	23 i	0 i	0 i	0 i	20 i	0 i	0 i	0 i	0 i	0 i
Niagara U.	650	24	0	0	0	0	0	0	18	0	0	6
Babson C.	651	14	0	0	0	0	0	0	0	0	0	14
La Salle U.	651	14	0	0	14	0	0	0	0	0	0	0
U. South Florida, Sarasota-Manatee	653	10	0	0	0	0	0	0	10	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,845,654 thousand in federally financed R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero federal expenditures for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6. This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form did not collect federally financed R&D expenditures by source and detailed field. For federally financed R&D expenditures by major field at institutions completing the shorter version of the survey, see table 83.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
All institutions	-	46,143,829	7,080,598	2,037,915	25,397,976	1,758,375	5,414,611	1,244,633	3,209,721
Johns Hopkins U.[b]	1	2,682,410	1,373,241	12,481	693,055	382,439	36,694	1,517	182,983
U. Washington, Seattle	2	1,024,195	89,508	34,131	673,867	22,183	125,722	7,016	71,768
U. Michigan, Ann Arbor	3	884,880	77,782	39,304	613,008	28,557	89,821	1,809	34,599
Georgia Institute of Technology	4	790,518	580,258	18,409	42,077	12,350	67,630	856	68,938
Columbia U. in the City of New York	5	762,289	47,328	21,289	579,119	18,833	86,265	48	9,407
Stanford U.	6	751,414	69,428	24,507	551,284	17,289	78,681	319	9,906
U. California, San Diego	7	727,289	119,510	30,822	442,934	10,676	88,909	1,115	33,323
U. Pennsylvania	8	721,308	57,517	9,131	592,887	3,957	43,067	830	13,919
Duke U.	9	707,746	65,776	17,100	570,531	2,872	34,439	719	16,309
U. North Carolina, Chapel Hill	10	706,145	19,056	5,847	556,113	2,522	40,535	2,886	79,186
U. Pittsburgh, Pittsburgh	11	689,273	48,018	10,781	587,352	2,117	28,642	74	12,289
U. Maryland[c]	12	689,125	100,321	18,488	339,488	68,963	56,545	24,124	81,196
U. California, San Francisco	13	676,331	36,517	1,107	624,363	623	8,151	0	5,570
U. California, Los Angeles	14	655,030	49,615	28,888	466,272	23,858	59,478	384	26,535
Pennsylvania State U., University Park and Hershey Medical Center	15	638,930	330,115	33,203	142,227	17,901	65,585	33,490	16,409
U. Wisconsin-Madison	16	632,558	37,336	69,108	364,173	13,109	89,371	22,764	36,697
Harvard U.	17	605,603	63,252	16,016	452,679	9,824	48,684	196	14,952
Yale U.	18	585,170	25,104	10,864	507,423	3,984	27,645	119	10,031
U. Southern California	19	562,120	130,708	8,018	348,029	2,874	56,035	449	16,007
Cornell U.	20	562,021	47,799	23,795	316,779	8,724	110,447	39,077	15,400
Washington U., Saint Louis	21	559,882	15,787	6,569	506,937	7,150	21,551	122	1,766
Ohio State U.	22	539,359	38,504	27,688	309,204	9,913	57,879	37,563	58,608
Northwestern U.	23	531,654	43,595	22,672	402,269	3,457	49,659	448	9,554
Texas A&M U., College Station and Health Science Center	24	517,489	40,392	33,824	230,038	9,219	108,498	39,135	56,383
Vanderbilt U. and Vanderbilt U. Medical Center	25	514,299	31,004	12,422	428,884	2,185	23,791	802	15,211
U. Minnesota, Twin Cities	26	514,092	33,686	22,855	337,054	8,609	66,439	31,472	13,977
U. Texas, Austin	27	500,409	178,548	43,372	88,179	15,134	144,693	489	29,994
Massachusetts Institute of Technology	28	488,741	134,685	66,436	134,831	36,610	98,283	0	17,896

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Icahn School of Medicine at Mount Sinai	29	480,452	27,216	0	449,744	816	1,274	0	1,402
Emory U.	30	452,636	14,235	2,025	416,675	1,584	12,065	166	5,886
New York U.	31	448,850	21,608	4,453	368,652	1,033	40,824	854	11,426
U. Colorado Boulder	32	427,869	40,468	25,970	56,267	126,185	82,731	1,705	94,543
U. Alabama, Birmingham	33	400,110	37,281	5,945	332,215	11,153	6,680	74	6,762
U. Florida	34	397,202	33,813	16,627	211,978	7,064	48,114	43,720	35,886
U. Illinois, Urbana-Champaign	35	387,853	52,163	75,459	78,416	8,430	127,552	18,648	27,185
U. California, Davis	36	380,965	19,757	15,436	235,290	4,579	36,165	35,042	34,696
Case Western Reserve U.	37	357,589	14,648	5,277	323,192	4,049	9,097	274	1,052
U. Chicago	38	352,447	24,834	9,697	258,415	6,542	47,157	0	5,802
U. California, Berkeley	39	349,989	39,226	43,606	138,471	38,006	68,052	3,129	19,499
U. Colorado Denver and Anschutz Medical Campus	40	348,724	12,993	0	319,196	506	5,745	123	10,161
Indiana U., Bloomington	41	343,876	15,214	5,922	265,696	952	43,122	531	12,439
Boston U.	42	339,172	20,249	6,403	261,969	8,621	32,444	560	8,926
Michigan State U.	43	329,748	15,237	86,992	80,965	3,865	78,931	32,081	31,677
U. Arizona	44	328,807	29,232	9,821	148,731	60,541	48,163	15,712	16,607
Oregon Health and Science U.	45	321,572	13,163	135	304,884	207	1,849	82	1,252
California Institute of Technology	46	316,519	34,756	20,937	81,136	76,296	96,277	0	7,117
Baylor C. of Medicine	47	315,101	15,890	0	262,649	19,410	1,803	14,847	502
U. Utah	48	314,023	30,944	24,872	215,237	3,718	34,587	635	4,030
Rutgers, State U. New Jersey, New Brunswick	49	311,743	14,023	10,951	186,903	3,690	44,032	25,408	26,736
U. Virginia, Charlottesville	50	300,348	41,234	13,533	188,838	4,580	31,618	1,292	19,253
U. Rochester	51	296,241	13,201	83,859	180,292	1,729	16,881	157	122
Colorado State U., Fort Collins	52	287,100	96,624	15,198	47,156	8,518	29,078	42,736	47,790
U. Cincinnati	53	285,899	13,220	2,295	252,177	582	7,959	63	9,603
Arizona State U.	54	278,150	45,400	16,407	59,939	58,226	69,146	2,000	27,032
Purdue U., West Lafayette	55	270,605	45,016	28,811	66,259	9,935	70,426	21,983	28,175
U. Iowa	56	259,639	14,506	3,249	207,042	11,649	9,691	798	12,704
Scripps Research Institute	57	243,502	2,606	153	236,093	304	3,550	0	796
U. Texas Southwestern Medical Center	58	242,679	7,973	109	230,283	2,090	1,482	0	742
Utah State U.	59	242,156	153,330	3,749	9,460	30,067	7,940	11,169	26,441

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. California, Irvine	60	241,734	14,181	15,400	150,368	8,078	45,598	146	7,963
Uniformed Services U. of the Health Sciences	61	235,202	218,434	0	16,526	0	0	0	242
North Carolina State U.	62	232,110	35,434	38,530	35,769	2,939	55,600	40,652	23,186
U. Miami	63	224,184	14,610	1,020	167,054	3,537	10,214	26	27,723
U. Illinois, Chicago	64	223,030	10,406	7,080	170,807	1,284	21,625	374	11,454
Carnegie Mellon U.	65	217,625	90,117	16,129	35,063	3,094	59,177	538	13,507
Virginia Polytechnic Institute and State U.	66	210,792	49,263	24,180	38,223	4,951	46,235	18,511	29,429
Albert Einstein C. of Medicine	67	204,635	4,693	0	199,660	0	0	0	282
Princeton U.	68	203,259	30,324	19,178	58,191	15,145	68,930	271	11,220
U. Kentucky	69	200,664	7,198	11,563	142,692	1,662	15,661	13,226	8,662
SUNY, U. Buffalo	70	200,155	37,862	5,248	115,134	692	30,334	280	10,605
U. Massachusetts, Medical School	71	192,938	6,772	0	183,561	0	857	369	1,379
Woods Hole Oceanographic Institution	72	191,186	55,879	2,359	1,352	6,640	105,458	16	19,482
U. Texas M. D. Anderson Cancer Center	73	186,488	7,839	0	176,515	438	734	28	934
Brown U.	74	185,676	19,546	5,935	126,373	3,539	25,460	0	4,823
U. Kansas	75	185,007	7,246	4,046	124,882	1,838	18,369	849	27,777
U. Oklahoma, Norman and Health Science Center	76	183,728	9,809	5,658	73,735	33,581	12,520	1,354	47,071
U. Georgia	77	171,351	3,039	12,910	81,511	1,340	28,103	30,754	13,694
Oregon State U.	78	167,494	18,278	16,185	24,499	6,593	47,950	30,810	23,179
Wake Forest U.	79	166,596	16,115	352	144,220	967	2,484	153	2,305
Iowa State U.	80	165,912	12,666	33,159	23,498	1,873	29,570	35,066	30,080
U. Connecticut	81	164,848	13,660	6,731	93,640	1,647	24,383	5,757	19,030
U. Hawaii, Manoa	82	163,694	29,458	5,441	46,924	14,141	29,444	10,321	27,965
Florida State U.	83	162,296	17,546	10,788	43,151	3,919	63,396	1,160	22,336
U. New Mexico	84	161,627	20,057	11,452	91,018	2,623	29,197	588	6,692
U. South Florida, Tampa	85	158,958	4,148	2,180	101,327	2,984	12,607	688	35,024
George Washington U.	86	157,533	7,873	4,603	119,565	1,282	14,795	305	9,110
U. Missouri, Columbia	87	156,190	17,161	5,582	73,447	645	18,313	20,423	20,619
Washington State U.	88	154,623	8,962	19,553	49,065	1,104	17,807	36,033	22,099
Temple U.	89	154,600	9,097	4,990	121,646	905	11,136	80	6,746
U. Dayton	90	154,101	90,417	4,142	236	991	899	10	57,406
Medical U. South Carolina	91	153,802	2,640	0	138,140	0	622	0	12,400

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Virginia Commonwealth U.	92	152,751	13,929	2,231	114,538	545	7,586	86	13,836
Tufts U.	93	148,320	11,639	2,172	78,768	1,385	14,208	14,929	25,219
SUNY, Stony Brook U.	94	146,478	6,009	21,900	74,364	2,911	36,027	123	5,144
U. Delaware	95	144,142	18,040	13,993	41,787	4,276	31,843	5,316	28,887
Dartmouth C. and Dartmouth Hitchcock Medical Center	96	142,219	8,404	2,756	106,809	4,757	17,832	557	1,104
U. Tennessee, Knoxville[d]	97	138,402	13,702	60,980	8,533	4,731	23,561	16,486	10,409
Northeastern U.	98	136,273	32,845	4,041	44,959	826	40,700	20	12,882
U. Texas Health Science Center, Houston	99	133,624	7,857	0	120,716	216	1,179	2,051	1,605
Medical C. Wisconsin	100	128,783	6,418	0	118,331	562	356	0	3,116
U. California, Santa Barbara	101	123,198	34,900	14,629	17,409	5,053	44,669	410	6,128
Mississippi State U.	102	120,616	35,757	6,205	11,112	1,050	9,986	29,349	27,157
U. Massachusetts, Amherst	103	116,170	16,361	5,775	34,939	3,347	38,314	8,480	8,954
U. Central Florida	104	114,575	35,966	6,666	19,042	8,869	22,704	1,067	20,261
U. Texas Medical Branch	105	114,103	6,042	0	105,937	1,108	494	6	516
Wayne State U.	106	113,137	6,346	2,034	92,303	154	8,358	333	3,609
U. Nebraska, Lincoln	107	107,299	8,390	10,041	25,370	585	28,026	20,474	14,413
Tulane U.	108	107,290	4,274	774	88,504	84	5,614	47	7,993
U. Nebraska, Medical Center	109	105,158	5,403	0	97,199	116	861	376	1,203
U. Alabama, Huntsville	110	104,288	61,157	416	578	27,270	8,210	189	6,468
George Mason U.	111	104,070	60,459	527	9,327	6,947	11,173	153	15,484
U. Notre Dame	112	104,030	26,047	14,028	25,188	1,016	27,578	272	9,901
Florida International U.	113	103,366	10,180	6,827	36,501	1,212	24,368	1,172	23,106
U. Texas Health Science Center, San Antonio	114	102,959	7,444	0	91,671	317	53	0	3,474
U. Alaska, Fairbanks	115	101,414	10,747	5,453	8,139	20,627	32,660	1,979	21,809
U. New Hampshire	116	100,373	4,758	2,999	19,871	20,865	18,563	8,822	24,495
Georgetown U.	117	98,682	9,875	1,197	68,060	3,689	6,952	0	8,909
U. Vermont	118	97,981	2,321	1,175	69,411	1,278	10,774	10,145	2,877
U. South Carolina, Columbia	119	97,143	4,488	8,836	54,660	3,619	16,712	378	8,450
Montana State U., Bozeman	120	93,759	28,685	3,351	21,729	6,803	12,179	11,034	9,978
U. California, Riverside	121	92,503	6,934	8,395	30,883	3,057	24,384	12,507	6,343

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Rice U.	122	88,768	19,702	7,998	18,786	3,525	36,060	179	2,518
U. Louisville	123	88,251	3,236	951	73,563	463	7,586	6	2,446
Louisiana State U., Baton Rouge	124	87,895	9,664	6,397	31,189	3,551	15,899	8,545	12,650
Rockefeller U.	125	86,280	2,561	0	81,391	0	2,131	32	165
New Jersey Institute of Technology	126	85,746	20,760	645	17,730	3,302	9,925	436	32,948
Drexel U.	127	82,576	7,803	2,338	51,587	480	13,275	1,336	5,757
U. Mississippi	128	82,361	9,899	654	51,423	535	4,426	6,060	9,364
Clemson U.	129	82,203	5,394	7,990	15,201	1,547	18,435	4,869	28,767
U. Oregon	130	81,278	3,325	5,534	42,851	803	15,062	499	13,204
West Virginia U.	131	79,657	4,636	15,101	32,046	4,020	10,599	7,612	5,643
Kansas State U.	132	79,100	4,948	8,040	15,066	528	14,852	24,157	11,509
Georgia State U.	133	78,199	2,517	2,518	54,675	674	8,620	412	8,783
U. California, Santa Cruz	134	76,468	4,135	4,289	37,603	3,449	15,818	951	10,223
Thomas Jefferson U.	135	74,676	3,229	159	70,883	132	0	47	226
Auburn U., Auburn	136	73,468	10,945	5,006	16,001	6,019	9,435	12,104	13,958
U. Houston	137	71,779	4,371	6,376	33,269	3,765	16,703	143	7,152
U. Arkansas for Medical Sciences	138	70,508	931	0	68,271	339	360	41	566
U. Rhode Island	139	67,242	4,913	1,262	19,303	1,031	18,523	5,328	16,882
SUNY, U. Albany	140	67,039	2,724	555	48,378	539	8,569	287	5,987
Rush U.	141	65,343	457	0	64,886	0	0	0	0
U. Nevada, Reno	142	64,793	5,334	5,361	26,180	1,478	10,997	6,038	9,405
Cold Spring Harbor Laboratory	143	62,215	917	1,880	50,792	0	6,631	1,785	210
U. Montana, Missoula	144	62,067	2,296	473	30,733	2,566	12,725	5,802	7,472
New Mexico State U.	145	60,971	19,336	6,159	7,544	4,170	11,316	9,204	3,242
U. Maryland, Baltimore County	146	59,391	3,410	294	15,355	25,503	11,350	534	2,945
U. Wyoming	147	57,353	1,800	7,547	13,053	1,066	19,828	7,435	6,624
U. Texas, Dallas	148	55,983	13,592	3,198	24,730	1,289	12,782	0	392
Augusta U.	149	55,797	1,380	0	52,952	0	208	0	1,257
Colorado School of Mines	150	55,560	9,593	20,441	2,785	2,160	16,181	600	3,800
U. Maine	151	54,376	12,392	2,708	2,495	809	11,554	15,677	8,741
Cleveland State U.	152	53,756	3,490	436	47,469	490	1,456	0	415
Wichita State U.	153	53,540	23,795	270	5,412	1,795	1,398	113	20,757
Rensselaer Polytechnic Institute	154	52,150	10,332	12,839	11,326	2,624	12,507	240	2,282
Naval Postgraduate School	155	51,870	46,777	772	29	773	1,449	0	2,070
U. Idaho	156	51,450	1,915	5,330	8,897	2,700	14,093	14,375	4,140

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. Tennessee, Health Science Center	157	48,264	2,943	0	44,904	0	60	0	357
U. Arkansas, Fayetteville	158	47,454	4,854	6,344	3,805	1,078	13,559	13,303	4,511
U. Texas, Arlington	159	44,950	8,647	2,863	9,470	1,568	9,087	160	13,155
U. North Dakota	160	44,153	1,863	18,047	15,079	2,095	3,889	1,936	1,244
U. Alabama, Tuscaloosa	161	43,017	6,693	4,496	7,514	1,391	10,698	558	11,667
U. Southern Mississippi	162	42,870	11,057	748	6,315	1,389	4,231	1,158	17,972
Brandeis U.	163	41,440	545	1,540	32,395	72	6,511	0	377
U. Massachusetts, Lowell	164	41,304	17,086	3,035	10,650	1,856	5,669	147	2,861
San Diego State U.	165	41,117	3,318	1,500	26,500	760	7,132	201	1,706
U. Louisiana, Lafayette	166	40,044	634	1,223	18,677	555	3,670	339	14,946
Oklahoma State U., Stillwater	167	39,873	2,798	3,982	9,307	782	8,336	8,853	5,815
Northern Arizona U.	168	39,387	6,850	1,870	9,638	3,669	9,101	4,379	3,880
U. Texas, El Paso	169	39,126	2,802	2,279	14,008	2,808	10,527	1,260	5,442
Michigan Technological U.	170	36,172	12,512	4,788	2,894	4,496	6,007	1,559	3,916
Wright State U.	171	35,321	25,512	76	7,076	264	764	141	1,488
Saint Louis U.	172	34,419	1,763	311	26,777	62	4,139	79	1,288
U. Texas, San Antonio	173	34,334	4,451	1,503	13,096	1,722	6,456	625	6,481
San Jose State U.	174	34,102	1,044	230	2,047	21,470	2,399	288	6,624
U.S. Air Force Academy	175	33,554	33,115	0	0	103	90	0	246
Stevens Institute of Technology	176	33,461	21,663	294	1,813	286	5,515	0	3,890
Florida A&M U.	177	33,136	663	1,772	5,428	165	4,114	8,820	12,174
Syracuse U.	178	31,861	3,044	2,029	9,089	315	12,593	858	3,933
Indiana U.-Purdue U., Indianapolis	179	31,622	1,315	1,035	18,771	95	6,840	200	3,366
North Dakota State U.	180	31,614	1,413	256	6,822	134	6,758	11,153	5,078
Mercer U.	181	31,572	29,687	0	1,821	29	35	0	0
Texas Tech U.	182	31,475	6,022	3,878	5,923	2,102	7,778	2,095	3,677
Louisiana State U., Health Sciences Center, New Orleans	183	31,381	145	0	30,914	0	66	0	256
Portland State U.	184	31,315	2,512	871	11,165	1,500	6,868	945	7,454
Boston C.	185	31,038	3,386	620	16,628	285	6,491	0	3,628
William & Mary	186	30,436	2,057	2,091	1,787	436	7,153	155	16,757
Old Dominion U.	187	30,330	7,549	4,368	5,519	2,488	5,985	223	4,198
CUNY, City C.	188	30,106	1,893	1,380	8,554	1,864	10,122	5	6,288
Howard U.	189	29,256	2,569	225	20,121	188	4,974	0	1,179

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. Nevada, Las Vegas	190	29,252	1,403	2,776	10,929	1,600	4,897	2,033	5,614
Rochester Institute of Technology	191	28,092	6,494	1,767	4,649	2,364	10,792	26	2,000
SUNY, Polytechnic Institute	192	27,998	22,879	1,788	1,235	28	1,456	0	612
U. Toledo	193	27,770	2,828	1,146	13,084	4,363	3,814	605	1,930
U. North Carolina, Charlotte	194	27,618	4,714	2,325	5,158	213	11,143	4	4,061
U. Massachusetts, Boston	195	27,575	827	50	10,419	754	4,408	0	11,117
U. Puerto Rico, Medical Sciences Campus	196	27,033	0	0	24,411	136	1,328	0	1,158
Texas State U.	197	26,950	3,102	56	3,813	4,011	3,232	445	12,291
Boise State U.	198	26,914	2,338	4,568	4,719	1,570	9,894	831	2,994
Lehigh U.	199	26,816	3,470	3,882	4,605	69	12,443	14	2,333
SUNY, Downstate Medical Center	200	26,454	946	0	25,020	0	358	0	130
Worcester Polytechnic Institute	201	26,074	6,870	1,706	4,317	169	10,551	185	2,276
CUNY, Hunter C.	202	26,025	342	424	21,271	47	3,483	0	458
U. North Texas, Health Science Center	203	25,917	548	0	23,466	306	38	33	1,526
U. Wisconsin-Milwaukee	204	25,354	616	2,367	9,505	181	10,529	216	1,940
U. Denver	205	24,753	588	0	16,293	553	3,099	0	4,220
Brigham Young U., Provo	206	24,632	4,112	2,334	6,857	1,553	7,547	483	1,746
SUNY, Binghamton U.	207	24,564	5,485	2,229	8,308	0	7,577	0	965
Illinois Institute of Technology	208	24,244	970	3,673	11,470	611	6,490	466	564
Loyola U., Chicago	209	24,018	1,041	0	20,003	40	1,522	199	1,213
SUNY, Upstate Medical U.	210	23,940	1,715	0	21,976	0	61	20	168
Florida Atlantic U.	211	23,695	3,964	393	7,931	515	4,130	857	5,905
U. Nebraska, central administration	212	23,104	21,430	0	0	0	1,674	0	0
New Mexico Institute of Mining and Technology	213	22,922	7,835	4,968	560	804	7,040	0	1,715
Missouri U. of Science and Technology	214	22,860	4,238	4,746	428	927	7,046	408	5,067
Air Force Institute of Technology	215	22,854	21,467	208	0	16	0	0	1,163
South Dakota State U.	216	22,531	435	234	3,551	1,029	2,635	11,354	3,293

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
Catholic U. of America	217	22,503		363		5,027		2,341		11,992		1,823		0		957	
Morehouse School of Medicine	218	22,500		0		0		22,489		0		11		0		0	
North Carolina Agricultural and Technical State U.	219	22,338		3,140		1,653		1,721		608		8,725		4,600		1,891	
U. Missouri, Kansas City	220	22,320		6,854		130		12,774		267		1,468		0		827	
U. South Alabama	221	21,825		359		919		12,181		399		3,510		306		4,151	
U. North Carolina, Greensboro	222	20,447		402		0		8,494		63		2,468		569		8,451	
East Carolina U.	223	20,168		1,176		34		11,380		99		3,850		93		3,536	
U. California, Merced	224	20,000		3,018		2,023		5,330		890		7,204		1,252		283	
Van Andel Research Institute	225	18,538		730		184		17,588		0		36		0		0	
U. Memphis	226	18,063		1,028		126		7,826		134		3,627		36		5,286	
Southern Methodist U.	227	17,752		4,503		2,899		3,207		829		4,626		0		1,688	
Loma Linda U.	228	17,457	i	2,331	i	0	i	13,112	i	1,975	i	0	i	0	i	39	i
California State U., Northridge	229	17,261		1,316		189		8,733		609		5,291		285		838	
San Francisco State U.	230	16,331	i	331	i	256	i	10,040	i	3	i	4,221	i	19	i	1,461	i
Rutgers, State U. New Jersey, Newark	231	16,196		1,634		515		8,018		0		5,446		29		554	
American U.	232	16,123		1,092		42		3,228		3,211		1,121		174		7,255	
U. Puerto Rico, Mayaguez	233	15,842		884		246		1,275		269		5,805		626		6,737	
Desert Research Institute	234	15,791		5,097		5,184		308		1,375		1,163		634		2,030	
Eastern Virginia Medical School	235	15,748		646		0		6,864		507		0		0		7,731	
Rowan U.	236	15,551		4,659		11		7,469		163		1,865		86		1,298	
Ohio U.	237	15,543		1,061		2,560		5,003		437		2,372		461		3,649	
U. Maryland Center for Environmental Science	238	15,498		955		9		44		752		4,079		330		9,329	
U. Alaska, Anchorage	239	15,290		2,078		8		2,987		186		2,726		163		7,142	
Tuskegee U.	240	15,122		217		0		3,394		6		5,718		5,475		312	
Kent State U.	241	15,004		1,081		1,487		6,507		216		4,082		8		1,623	
Morgan State U.	242	14,101		1,572		0		4,554		3,707		2,357		52		1,859	
U. Puerto Rico, Rio Piedras	243	14,071		276		0		4,732		1,287		5,862		547		1,367	
Jackson State U.	244	13,662		645		271		2,660		35		7,733		0		2,318	
U. North Texas, Denton	245	13,653		2,320		2,340		2,057		722		5,024		174		1,016	
U. Hawaii, system office	246	13,367		11,673		0		0		0		0		0		1,694	

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Texas A&M U.-Corpus Christi	247	13,349	91	73	771	1,878	1,538	17	8,981
Marquette U.	248	13,187	380	600	8,251	124	3,318	127	387
Western Michigan U. and Homer Stryker M.D. School of Medicine	248	13,187	451	140	2,520	464	3,071	16	6,525
U. Texas Rio Grande Valley	250	13,093	1,209	23	5,932	16	3,117	1,905	891
Texas Tech U., Health Sciences Center	251	13,043	792	0	12,126	0	87	0	38
U. South Dakota	252	13,034	247	270	8,010	38	4,124	0	345
Albany Medical C.	253	12,940	357	0	12,583	0	0	0	0
North Carolina Central U.	254	12,787	66	141	8,172	0	3,329	10	1,069
Southern Illinois U., Carbondale	255	12,735	824	177	6,021	55	1,495	1,327	2,836
CUNY, Queens C.	256	12,726	176	7,815	2,960	0	1,737	3	35
Delaware State U.	257	12,689 i	315 i	269 i	4,775 i	1,057 i	2,456 i	3,326 i	491 i
U.S. Naval Academy	258	12,577	11,379	0	0	25	1,173	0	0
Meharry Medical C.	259	12,573	6	0	12,317	0	0	0	250
U. West Florida	260	12,369	1,090	353	593	13	654	0	9,666
Missouri State U.	261	12,310	10,359	213	150	60	355	713	460
New York Medical C.	262	12,106	403	27	11,638	0	25	0	13
California State U., Long Beach	263	12,014	674	221	8,232	262	1,277	87	1,261
U. of the Virgin Islands	264	11,787	0	104	1,775	790	4,492	3,218	1,408
U. Baltimore	265	11,748	0	0	283	0	37	1	11,427
California State U., San Marcos	266	11,547	1,410	0	2,208	961	2,728	215	4,025
Embry-Riddle Aeronautical U.	267	11,542	602	54	12	1,050	1,502	153	8,169
Louisiana State U., Health Sciences Center, Shreveport	268	11,452	240	0	11,080	130	2	0	0
Hampton U.	269	11,278	1,370	836	1,603	4,577	2,892	0	0
Ponce Health Sciences U.	270	11,228	0	0	11,228	0	0	0	0
Marshall U.	271	11,078	341	49	8,770	95	1,358	0	465
Florida Institute of Technology	272	10,999	3,335	304	431	1,292	1,630	96	3,911
Northeast Ohio Medical U.	273	10,684	159	0	10,245	0	102	17	161
South Dakota School of Mines and Technology	274	10,659	2,319	1,802	331	964	4,404	229	610
U. Akron	275	10,574	2,779	405	1,359	687	4,671	3	670
Miami U.	276	10,473	1,314	545	3,187	163	3,820	52	1,392

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Nova Southeastern U.	277	10,452	5,165	0	2,591	0	158	0	2,538
California Polytechnic State U., San Luis Obispo	278	10,178	440	832	1,731	353	4,232	1,181	1,409
U. Nebraska, Omaha	279	9,996	1,475	8	3,915	476	2,739	0	1,383
Charles R. Drew U. of Medicine and Science	280	9,863	874	0	8,989	0	0	0	0
U. Guam	281	9,722	2,012	0	2,088	240	1,455	2,604	1,323
Xavier U. Louisiana	282	9,680	781	0	6,853	902	1,134	0	10
Texas A&M U.-Kingsville	283	9,610	380	55	1,324	35	992	4,530	2,294
Prairie View A&M U.	284	9,249	1,410	205	128	520	1,904	4,945	137
CUNY, Advanced Science Research Center	285	9,208	3,247	0	3,417	388	2,067	33	56
Langston U.	286	9,004	8	0	1,831	1,454	248	5,429	34
Baylor U.	287	8,851	1,073	998	3,007	111	2,841	665	156
CUNY, Graduate School of Public Health and Health Policy	288	8,722	0	0	7,506	0	154	52	1,010
Illinois State U.	289	8,719	0	0	1,734	0	2,173	388	4,424
Tennessee State U.	290	8,707	679	524	390	120	1,082	5,746	166
Rosalind Franklin U. of Medicine and Science	291	8,504	796	0	7,511	0	0	0	197
U.S. Military Academy	292	8,406	7,279	0	0	0	10	0	1,117
California State U., Los Angeles	293	8,380	252	98	3,161	1,031	2,673	15	1,150
U. Maryland, Eastern Shore	294	8,084	0	0	289	16	1,312	2,361	4,106
Northern Illinois U.	295	8,030	157	2,568	930	87	2,112	12	2,164
Chapman U.	296	7,850	1,378	105	4,377	203	1,264	293	230
Idaho State U.	297	7,849	45	3,310	835	240	2,935	128	356
SUNY, C. of Environmental Science and Forestry	298	7,809	130	454	346	44	759	1,529	4,547
U. Texas Health Science Center, Tyler	299	7,732	16	101	7,615	0	0	0	0
St. Edward's U.	300	7,700	0	45	335	383	4,490	615	1,832
Teachers C., Columbia U.	301	7,614	0	0	524	0	2,286	0	4,804
Creighton U.	302	7,583	730 i	208 i	5,599 i	160 i	560 i	28 i	298 i
Central Michigan U.	303	7,450	67	1,812	1,386	0	1,258	0	2,927
East Tennessee State U.	304	7,329	126	17	6,405	26	377	29	349

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. Arkansas, Little Rock	305	7,289	3,787	365	474	919	986	142	616
Louisiana Tech U.	306	7,167	2,093	72	345	151	3,431	365	710
Norfolk State U.	307	7,148	2,355	2,920	23	0	1,823	0	27
Clarkson U.	308	7,095	1,461	184	360	62	3,433	134	1,461
Alcorn State U.	309	7,023	0	52	107	0	74	6,790	0
U. North Carolina, Wilmington	310	6,783	257	185	704	251	1,691	55	3,640
U. Massachusetts, Dartmouth	311	6,506	1,257	20	470	58	1,941	109	2,651
Tennessee Technological U.	312	6,471	1,044	1,326	28	121	2,457	512	983
U. Minnesota, Duluth	313	6,454	69	97	283	6	3,867	480	1,652
Bowling Green State U.	314	6,397	112	497	1,480	126	2,745	121	1,316
U. Missouri, Saint Louis	315	6,146	51	0	3,329	67	1,256	110	1,333
Naval War C.	316	5,944	5,944	0	0	0	0	0	0
California State U., San Bernardino	317	5,886	133	0	374	60	2,474	346	2,499
California State U., Sacramento	318	5,693	14	0	183	0	770	186	4,540
Alabama A&M U.	319	5,643	839 i	310 i	2,969 i	88 i	731 i	227 i	479 i
Virginia State U.	320	5,642	4	113	27	5	1,769	3,499	225
California State Polytechnic U., Pomona	321	5,514	5	0	857	49	2,908	327	1,368
U. South Florida, Saint Petersburg	322	5,344	0	0	641	0	144	230	4,329
Clark Atlanta U.	323	5,324	709	239	2,570	0	1,765	41	0
Florida Gulf Coast U.	324	5,304	59	0	898	140	1,173	0	3,034
CUNY, John Jay C. of Criminal Justice	325	5,297	45	68	1,713	0	703	0	2,768
U. Hawaii, Hilo	326	5,274	259	109	546	26	2,498	511	1,325
DePaul U.	327	5,156	14	14	2,805	126	2,037	0	160
Oakland U.	328	5,068	401	98	2,175	184	2,145	17	48
U. New England	329	5,064	0	256	3,951	0	609	131	117
Duquesne U.	330	4,981	456	0	2,714	0	718	0	1,093
Villanova U.	331	4,921	559	0	403	814	2,965	0	180
Morehouse C.	332	4,825	359	502	1,033	4	2,776	0	151
Fort Valley State U.	333	4,806	158	0	0	0	409	4,155	84
Sam Houston State U.	334	4,764	197	0	283	0	570	561	3,153
Arkansas State U., Jonesboro	335	4,712	55	0	702	11	1,938	1,217	789
U. Tulsa	336	4,697	1,948	675	148	187	1,161	11	567
CUNY, Brooklyn C.	337	4,651	0	0	2,529	0	1,275	59	788
National Defense U.	338	4,583	4,583	0	0	0	0	0	0
U. North Florida	339	4,568	129	66	1,854	23	806	126	1,564

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Winston-Salem State U.	340	4,498	0	0	1,596	0	1,729	53	1,120
California State U., Bakersfield	341	4,486	28	0	372	0	1,478	190	2,418
Western U. of Health Sciences	341	4,486	585	0	3,445	0	0	456	0
Kentucky State U.	343	4,456	0	0	0	0	157	4,299	0
Wellesley C.	344	4,441	0	0	1,894	633	1,511	0	403
U. Arkansas, Pine Bluff	345	4,393	180	0	106	245	62	3,790	10
Montana Technological U.	346	4,322	2,644	199	339	124	436	40	540
Wesleyan U.	347	4,305	1,002	0	834	608	1,355	0	506
U. Detroit Mercy	348	4,226	55	0	4,138	0	20	0	13
Tarleton State U.	349	4,139	0	0	0	0	4	3,822	313
Rhode Island C.	350	4,128	60	179	1,843	0	102	0	1,944
California State U., Fullerton	351	4,121	0	104	1,670	83	1,905	272	87
West Virginia State U.	352	3,993	0	80	62	0	495	2,458	898
Western Washington U.	353	3,966	4	274	658	159	2,412	38	421
Dakota State U.	354	3,957	1,067	0	13	0	1,605	0	1,272
U. Tennessee, Chattanooga	355	3,915	722	185	3	0	2,719	0	286
California State U., Monterey Bay	356	3,889	290	0	160	1,769	1,021	248	401
U. New Orleans	357	3,868	1,095	43	123	115	425	0	2,067
Fordham U.	358	3,831	382	0	2,238	0	703	0	508
Fisk U.	359	3,811	326	0	173	0	3,013	0	299
South Carolina State U.	360	3,796 i	0 i	751 i	1,175 i	70 i	1,572 i	124 i	104 i
Montclair State U.	361	3,782	0	0	1,008	227	2,222	108	217
U. of Health Sciences and Pharmacy in St. Louis	362	3,767	801	0	2,966	0	0	0	0
Lincoln U., Jefferson City	363	3,636	0	0	0	0	251	3,385	0
U. Colorado Colorado Springs	364	3,508	748	99	812	117	1,683	24	25
Southern Illinois U., Edwardsville	365	3,467	0	0	1,271	0	1,561	45	590
Clark U.	366	3,350	9	139	499	164	2,197	88	254
Youngstown State U.	367	3,308	2,717	0	61	26	298	0	206
Western Kentucky U.	368	3,265	14	70	977	201	1,264	430	309
CUNY, Lehman C.	369	3,197	1	170	1,432	71	1,472	28	23
Texas Christian U.	370	3,168	36	198	2,291	22	313	0	308
California State U., Fresno	371	3,117	0	0	760	184	1,345	477	351

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
Central State U.	372	3,097	0	0	0	35	548	2,514	0
C. Charleston	373	3,087	0	24	205	1,423	756	136	543
U. Washington, Tacoma	374	3,075	139	12	536	39	674	18	1,657
Middle Tennessee State U.	375	3,062	98	0	179	23	1,292	547	923
Toyota Technological Institute, Chicago	376	3,038	852	0	345	0	1,841	0	0
MGH Institute of Health Professions	377	3,014	0	0	3,014	0	0	0	0
Pace U.	378	2,997	153	464	280	0	2,100	0	0
Southern U. and A&M C., Baton Rouge	379	2,996	396	0	185	223	1,847	122	223
Texas Southern U.	380	2,941	0	0	1,804	0	1,137	0	0
U. Washington, Bothell	381	2,815	158	0	182	53	1,959	7	456
Barnard C.	382	2,800	42	0	1,216	0	1,485	57	0
U. Central del Caribe	383	2,743	0	0	2,743	0	0	0	0
Seton Hall U.	384	2,725	0	0	539	0	0	0	2,186
Haverford C.	385	2,680	1,696	0	109	234	641	0	0
U. of the District of Columbia	386	2,664	648	0	0	340	756	879	41
Smith C.	387	2,650	33	13	663	0	1,482	150	309
Oklahoma State U., Center for Health Sciences	388	2,618	0	0	2,421	0	46	0	151
James Madison U.	389	2,609	35	97	904	39	1,018	15	501
Eastern Michigan U.	390	2,598	75	0	1,947	20	454	0	102
Pacific U.	391	2,596	0	0	1,564	8	987	1	36
Alabama State U.	392	2,582	183	59	631	0	1,176	0	533
CUNY, Graduate Center	393	2,561	0	0	567	10	1,984	0	0
California State U., Chico	394	2,520	503	21	215	0	1,139	191	451
Northwest Indian C.	395	2,497 i	0 i	0 i	1,044 i	439 i	776 i	224 i	14 i
Salisbury U.	396	2,413	0	0	393	0	383	64	1,573
U. North Carolina, Asheville	397	2,405	0	0	919	17	565	184	720
Humboldt State U.	398	2,399	0	0	0	0	967	453	979
U. San Diego	399	2,398	316	22	259	0	1,415	0	386
Ball State U.	400	2,397	19	8	1,060	17	623	15	655
California State U., East Bay	401	2,348	0	216	63	19	1,206	0	844
U. South Carolina, Aiken	402	2,328	0	1,339	464	72	0	0	453
CUNY, C. Staten Island	403	2,295	0	16	345	16	1,852	0	66

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. Michigan, Dearborn	404	2,264	82	476	231	0	1,241	0	234
U. Southern Maine	405	2,231	0	0	2,098	0	37	4	92
Johnson C. Smith U.	406	2,230	0	0	382	15	649	0	1,184
U. Wisconsin-Stevens Point	407	2,193	43	0	0	0	58	489	1,603
Lamar U.	408	2,146	0	31	543	0	364	168	1,040
Spelman C.	409	2,136	0	0	360	0	1,776	0	0
Tougaloo C.	410	2,102	0	0	1,429	30	643	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	411	2,085	0	0	0	0	0	2,085	0
U. Louisiana, Monroe	412	2,025	0	0	1,688	10	31	72	224
Northeastern Illinois U.	413	2,018	0	0	1,122	0	803	93	0
Towson U.	414	2,010	562	0	132	0	659	181	476
Purdue U., Northwest	415	1,996	312	116	131	17	1,278	62	80
Kennesaw State U.	416	1,983	8	58	907	10	771	16	213
Bowie State U.	417	1,967	394	97	0	68	828	13	567
U. Oklahoma, Tulsa	418	1,953	0	0	846	0	882	0	225
Rutgers, State U. New Jersey, Camden	419	1,952	244	84	646	0	676	0	302
Albany C. of Pharmacy and Health Sciences	420	1,938	0	0	1,938	0	0	0	0
Murray State U.	421	1,929	0	0	234	0	1,609	43	43
Claflin U.	422	1,907	612	247	339	1	708	0	0
William Paterson U.	423	1,896	0	0	566	0	414	0	916
Bates C.	424	1,885	0	0	489	62	1,255	0	79
U. Northern Iowa	425	1,881	673	85	295	28	558	109	133
Bowdoin C.	426	1,862	0	0	550	409	830	0	73
U. Northern Colorado	427	1,853	13	0	218	30	712	13	867
Gallaudet U.	428	1,841	0	0	1,462	0	354	0	25
Grand Valley State U.	429	1,831	22	0	826	45	484	36	418
Skidmore C.	430	1,827	0	0	210	389	584	0	644
Saginaw Valley State U.	431	1,809	105	0	1,083	1	0	0	620
Reed C.	432	1,806	0	0	391	0	1,145	38	232
St. John's U., New York	433	1,805	83	0	1,377	0	345	0	0
Savannah State U.	434	1,804	582	138	416	0	375	0	293
Western Illinois U.	435	1,801	71	56	7	0	80	957	630
Georgia Southern U.	436	1,790	95	11	619	26	637	42	360

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
Amherst C.	437	1,775		0		0		379		0		1,396		0		0	
Harvey Mudd C.	438	1,748		0		0		0		22		1,525		0		201	
Western Carolina U.	439	1,707		0		0		706		10		314		224		453	
Texas Tech U., Health Sciences Center, El Paso	440	1,703		310		0		1,327		0		66		0		0	
Central Washington U.	441	1,701		0		0		0		165		846		20		670	
Texas Woman's U.	442	1,700		2		0		553		0		248		67		830	
Hawaii Pacific U.	443	1,699		0		0		750		0		150		654		145	
Bucknell U.	444	1,693	i	213	i	3	i	278	i	35	i	1,046	i	0	i	118	i
SUNY, C. of Optometry	445	1,688		0		0		1,688		0		0		0		0	
Morehead State U.	446	1,674		0		288		493		824		57		12		0	
U. Richmond	447	1,628		0		98		838		40		493		116		43	
Troy U.	448	1,591		0		0		0		0		165		71		1,355	
CUNY, New York City C. of Technology	449	1,585		183		0		343		159		900		0		0	
Occidental C.	450	1,567		9		0		90		48		935		90		395	
Winthrop U.	451	1,563		0		0		529		0		322		0		712	
Touro U.	452	1,558		0		0		1,500		0		58		0		0	
Middlebury C.	453	1,546		0		0		907		57		570		0		12	
New York Institute of Technology	454	1,542		129		0		919		0		380		81		33	
West Texas A&M U.	454	1,542		0		372		0		108		364		401		297	
Bryn Mawr C.	456	1,531		672		55		129		0		649		0		26	
Santa Clara U.	457	1,522		52		0		541		77		808		3		41	
CUNY, York C.	458	1,513		20		181		835		164		313		0		0	
CUNY, Baruch C.	459	1,470		263		275		35		37		779		0		81	
Appalachian State U.	460	1,469		0		27		102		40		958		42		300	
Northern Kentucky U.	461	1,462		0		0		755		203		216		0		288	
Elizabeth City State U.	462	1,455		29		0		106		0		644		0		676	
U. Central Oklahoma	463	1,444	i	57	i	0	i	616	i	0	i	396	i	60	i	315	i
Mount Holyoke C.	464	1,442		0		0		432		18		765		0		227	
U. New Haven	465	1,440		312		118		0		20		595		0		395	
California State U., Dominguez Hills	466	1,433		0		3		637		0		701		0		92	
U. Central Arkansas	467	1,421		11		0		887		32		249		132		110	
Davidson C.	468	1,411		0		54		741		0		459		0		157	
Palmer C. of Chiropractic, Davenport	469	1,400		0		0		1,400		0		0		0		0	
U. Houston-Downtown	470	1,392		0		0		28		0		392		0		972	

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
U. Wisconsin-Superior	471	1,382		9		0		1		9		30		0		1,333	
U. of the Pacific	472	1,375		0		0		920		108		271		63		13	
Christopher Newport U.	473	1,365		22		193		57		566		396		0		131	
Long Island U.	474	1,349		0		0		1,001		0		113		235		0	
Mills C.	475	1,341		0		0		0		0		390		0		951	
U. Wisconsin-Oshkosh	476	1,336	i	209	i	69	i	711	i	56	i	187	i	21	i	83	i
Indiana U. Pennsylvania	477	1,309		0		175		111		15		327		581		100	
Seattle U.	478	1,303		0		0		81		0		1,212		10		0	
Black Hills State U.	479	1,287		0		0		504		2		697		0		84	
California State U., Stanislaus	480	1,284		0		0		0		0		936		0		348	
U. Puerto Rico, Humacao	481	1,279		0		0		421		202		529		0		127	
Lewis and Clark C.	482	1,268		0		153		121		0		994		0		0	
U. Nebraska, Kearney	483	1,259		0		0		785		26		236		0		212	
Stephen F. Austin State U.	484	1,257		0		0		24		0		477		585		171	
SUNY, Buffalo State	485	1,241		0		0		177		0		304		0		760	
Carleton C.	486	1,236		0		0		86		22		1,052		0		76	
Fort Lewis C.	487	1,228		64		102		165		28		696		116		57	
Texas A&M U.-Commerce	488	1,226		0		144		0		71		599		62		350	
Jacksonville State U.	489	1,216		3		0		0		0		27		0		1,186	
Coastal Carolina U.	490	1,211		99		56		157		0		339		0		560	
U. Puerto Rico, Cayey	491	1,210		0		0		1,074		0		88		0		48	
Trinity U.	492	1,207		0		0		825		4		378		0		0	
Franklin and Marshall C.	493	1,202		0		0		397		6		520		0		279	
Dillard U.	494	1,200		646		0		173		16		180		0		185	
Colorado State U., Pueblo	495	1,161		0		0		0		12		68		0		1,081	
Hope C.	496	1,155		0		40		59		114		841		44		57	
Eastern Washington U.	497	1,153		0		152		157		0		139		0		705	
U. of the Sciences Philadelphia	498	1,126		0		0		923		0		203		0		0	
Pomona C.	499	1,123		84		0		305		175		559		0		0	
Keck Graduate Institute	500	1,113	i	116	i	4	i	897	i	7	i	55	i	3	i	31	i
Loyola Marymount U.	501	1,105		0		0		615		0		351		32		107	
U. Alaska, Southeast	502	1,098		6		12		59		47		438		79		457	
Williams C.	503	1,086	i	58	i	0	i	161	i	5	i	862	i	0	i	0	i

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
Hobart and William Smith Colleges	504	1,072		0		0		0		0		368		153		551	
Vassar C.	505	1,055		7		0		209		59		779		0		1	
New School	506	1,050		157		59		18		0		752		0		64	
Saint Joseph's U.	507	1,047		0		0		170		0		595		0		282	
Roger Williams U.	508	1,045		0		0		214		13		374		34		410	
Keene State C.	509	1,043		0		0		838		53		152		0		0	
Swarthmore C.	510	1,041		0		20		318		72		546		21		64	
New Mexico Highlands U.	511	1,034		0		0		104		0		930		0		0	
Southern Connecticut State U.	512	1,026		219		0		318		160		260		22		47	
Trinity C., Hartford	513	1,019		0		0		634		13		372		0		0	
Fayetteville State U.	514	1,008		111		0		418		0		270		0		209	
Erikson Institute	515	1,006		0		0		200		0		135		0		671	
Hofstra U.	516	997		3		0		8		9		958		0		19	
Texas A&M International U.	517	986		317		28		38		19		11		43		530	
Ithaca C.	518	981		0		0		492		231		258		0		0	
U. Illinois, Springfield	519	976		3		0		41		12		2		0		918	
Doane U.	520	958	i	0	i	0	i	258	i	0	i	699	i	0	i	1	i
C. New Jersey	521	951		0		0		120		22		731		0		78	
SUNY, C. Plattsburgh	522	950		82		0		277		93		87		0		411	
SUNY, Geneseo	522	950		0		363		160		45		382		0		0	
Indiana State U.	524	949		0		121		12		10		161		0		645	
Alfred U.	525	947		597		193		0		7		97		0		53	
U. Ana G. Mendez, Gurabo	526	946		0		0		418		0		163		0		365	
Midwestern U.	527	936		0		0		640		0		47		21		228	
Sonoma State U.	527	936		71		0		17		458		378		0		12	
Colgate U.	529	918		62		0		71		170		555		0		60	
Providence C.	530	913		0		0		95		0		818		0		0	
National U. of Natural Medicine	531	912		0		0		912		0		0		0		0	
Central Connecticut State U.	532	901		0		0		61		122		52		8		658	
U. Wisconsin-Green Bay	533	890		131	i	53	i	442	i	33	i	124	i	38	i	69	i
Calvin U.	534	888	i	163	i	0	i	113	i	10	i	359	i	0	i	243	i
Liberty U.	535	886		0		23		44		0		419		0		400	
CUNY, system office	536	884		78		0		0		0		806		0		0	
Southeastern Louisiana U.	536	884		0		0		389		5		105		0		385	
Stockton U.	538	872		0		0		39		5		0		46		782	
U. of the Incarnate Word	539	869		531		0		14		0		324		0		0	

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures	DOD	DOE	HHS	NASA	NSF	USDA	Other[a]
U. Hartford	540	854	20	0	15	585	228	0	6
Furman U.	541	847	0	0	430	10	403	4	0
Suffolk U.	542	844	0	0	584	76	156	0	28
Albany State U.	543	836	0	32	12	3	261	270	258
U. Wisconsin-La Crosse	544	817	14	0	65	21	318	0	399
Polytechnic U. Puerto Rico	545	813	244	0	0	0	569	0	0
Claremont Graduate U.	546	809	120	0	298	0	67	0	324
Colby C.	546	809	22	0	244	74	469	0	0
Salish Kootenai C.	548	802	0	0	324	0	281	173	24
Grambling State U.	549	787	7	0	3	0	349	0	428
New England C. of Optometry	550	785	0	0	785	0	0	0	0
SUNY, C. Brockport	551	781	5	0	204	0	145	7	420
Kean U.	552	775	0	0	0	0	522	0	253
Saint Michael's C.	552	775	0	42	201	5	527	0	0
U. Texas, Tyler	554	774	72	0	241	0	240	218	3
Yeshiva U.	555	772	52	0	424	0	296	0	0
Claremont McKenna C.	556	771	59	0	171	0	490	0	51
Fort Hays State U.	557	764	0	0	215	21	40	183	305
U. Texas of the Permian Basin	558	757	0	82	328	0	6	0	341
Lafayette C.	559	755	102	0	218	0	424	2	9
Oberlin C.	560	743	0	0	74	62	607	0	0
Citadel Military C. South Carolina	561	736	350	0	42	0	308	0	36
West Chester U. Pennsylvania	562	724	251	0	99	16	278	48	32
Kenyon C.	563	714	0	0	101	0	613	0	0
Pepperdine U.	564	693	54	0	169	0	366	0	104
Mercyhurst U.	565	690 i	65 i	21 i	510 i	15 i	54 i	2 i	23 i
Stonehill C.	566	674	183	0	0	0	311	0	180
Biola U.	567	662 i	102 i	32 i	422 i	15 i	66 i	2 i	23 i
U. of Mary Washington	568	660	15	0	6	0	213	0	426
Macalester C.	569	647	0	0	145	31	471	0	0
U. Wisconsin-Eau Claire	569	647	0	46	166	14	421	0	0
Grinnell C.	571	644	0	0	0	0	638	6	0
Benedict C.	572	635	0	81	9	0	123	168	254
U. Houston-Clear Lake	573	632	1	0	109	98	81	0	343
California State U., Maritime Academy	574	621	0	0	0	0	621	0	0
La Sierra U.	575	618	0	0	0	0	4	0	614
Milwaukee School of Engineering	576	613	0	55	378	0	180	0	0

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
Midwestern State U.	577	599		0		0		387		0		208		0		4	
Northwestern State U. Louisiana	578	598		0		0		1		0		0		0		597	
Purdue U., Fort Wayne	579	589		15		0		104		1		330		107		32	
CUNY, Medgar Evers C.	580	588		129		0		314		49		94		1		1	
U. North Carolina, general administration	581	572		572		0		0		0		0		0		0	
Kettering U.	582	568		0		0		0		0		419		0		149	
Edward Via C. of Osteopathic Medicine	583	566		13		0		552		0		1		0		0	
Whitman C.	584	558		20		0		272		0		266		0		0	
Lipscomb U.	585	557	i	106	i	15	i	353	i	19	i	46	i	2	i	16	i
Eastern Kentucky U.	586	554		8		0		143		0		335		4		64	
California State U., Channel Islands	587	553		144		0		0		0		402		0		7	
Pennsylvania State U., Behrend	588	543		30		0		0		0		229		0		284	
U. North Georgia	589	542		321		0		0		11		188		21		1	
Minnesota State U., Mankato	590	525		65		0		59		2		279		0		120	
U. Ana G. Mendez, Carolina	591	520		0		0		195		0		11		0		314	
SUNY, Oswego	592	492		0		0		54		0		170		0		268	
U. Massachusetts, central office	593	488		0		0		174		0		78		0		236	
U. Wisconsin-River Falls	593	488		0		0		0		0		313		129		46	
Connecticut C.	595	483		113		0		259		0		48		0		63	
Sul Ross State U.	596	481		0		0		0		0		0		90		391	
Pittsburg State U.	597	477		0		0		216		12		81		13		155	
Austin Peay State U.	598	475		52		0		0		13		128		25		257	
Union C., Schenectady	599	462		0		0		6		120		336		0		0	
St. Cloud State U.	600	459		3		0		0		0		318		0		138	
Pennsylvania State U., Harrisburg	601	451		24		0		379		0		24		0		24	
U. of St. Thomas (MN)	602	450		1		0		16		31		368		26		8	
Des Moines U.	603	449		0		0		289		0		1		0		159	
Northern Michigan U.	604	446		0		0		157		0		254		0		35	
Weber State U.	605	424		70		0		0		22		217		8		107	
Philadelphia C. of Osteopathic Medicine	606	422		0		0		422		0		0		0		0	

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
West Virginia School of Osteopathic Medicine	607	419		0		0		419		0		0		0		0	
Lawrence Technological U.	608	405		224		0		0		0		162		0		19	
U. Puget Sound	609	401		0		0		2		0		395		0		4	
Willamette U.	609	401		0		0		22		11		267		0		101	
Manhattan C.	611	398		0		0		71		0		322		0		5	
Fairfield U.	612	365		0		0		0		10		338		17		0	
Dine C.	613	347		0		0		31		0		48		19		249	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	614	342		74		0		231		0		37		0		0	
U. Wisconsin-Platteville	615	336	i	104	i	8	i	35	i	11	i	65	i	69	i	44	i
Oregon Institute of Technology	616	326		0		86		0		56		26		0		158	
Wheaton C., Wheaton	617	324		0		14		208		0		102		0		0	
Marshall B. Ketchum U.	618	323	i	28	i	0	i	261	i	1	i	10	i	0	i	23	i
Gettysburg C.	619	320		0		0		0		10		265		0		45	
Merrimack C.	620	306		0		0		168		18		92		0		28	
Franklin W. Olin C. of Engineering	621	293		0		0		21		48		189		0		35	
C. Wooster	622	283		62		0		73		0		138		5		5	
U. Michigan, Flint	623	276		0		0		142		0		0		0		134	
Albion C.	624	272		0		0		0		110		70		0		92	
California Lutheran U.	625	271		144		0		0		0		59		0		68	
St. Bonaventure U.	626	265		0		0		0		0		187		0		78	
Andrews U.	627	263		0		0		0		191		72		0		0	
Florida Polytechnic U.	628	252		20		114		17		8		93		0		0	
Rhode Island School of Design	629	236	i	3	i	2	i	8	i	2	i	79	i	45	i	97	i
Bradley U.	630	235		0		0		20		96		15		0		104	
St. Olaf C.	631	230		0		0		7		0		186		0		37	
New Jersey City U.	632	223		0		0		0		0		64		0		159	
Dickinson C.	633	222		0		0		40		0		26		20		136	
U. California, Office of the President	634	217		0		0		123		0		0		94		0	
U. Minnesota, Morris	635	213		0		0		0		0		213		0		0	
Colorado C.	636	196		0		0		0		0		192		2		2	
Heidelberg U.	637	188		0		0		0		0		0		80		108	

TABLE 25

Federally financed higher education R&D expenditures, ranked by all federal R&D expenditures, by federal agency: FY 2020

(Dollars in thousands)

Institution	Rank	All federal R&D expenditures		DOD		DOE		HHS		NASA		NSF		USDA		Other[a]	
Framingham State U.	638	179		103		0		0		0		10		66		0	
Eastern Connecticut State U.	639	177		0		0		0		2		175		0		0	
Alaska Pacific U.	640	148		0		0		0		32		78		38		0	
U. San Francisco	640	148		0		0		0		0		148		0		0	
Hamilton C.	642	144		0		0		0		0		55		0		89	
Azusa Pacific U.	643	128		116		0		0		0		12		0		0	
Monmouth U.	644	110		0		0		0		0		0		0		110	
Elon U.	645	106		0		0		81		0		22		0		3	
Columbus State U.	646	93		40		0		0		0		53		0		0	
Emerson C.	647	84		0		0		0		0		49		0		35	
Roseman U. of Health Sciences	648	56		0		0		56		0		0		0		0	
C. of Saint Benedict	649	43	i	0	i	0	i	0	i	0	i	43	i	0	i	0	i
Niagara U.	650	24		0		0		0		0		0		0		24	
Babson C.	651	14		0		0		0		0		14		0		0	
La Salle U.	651	14		0		0		14		0		0		0		0	
U. South Florida, Sarasota-Manatee	653	10		0		0		0		0		0		0		10	

i = imputed.

DOD = Department of Defense; DOE = Department of Energy; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; NSF = National Science Foundation; USDA = Department of Agriculture.

[a] Includes all other agencies reported.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $1,845,654 thousand in federally financed R&D expenditures in FY 2020.

[c] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[d] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Agency-specific rankings available in table 59 through table 65. Institutions reporting zero federal expenditures for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	4,596,633	59,461	192,307	2,699,498	26,640	94,312	47,653	175,297	70,952	895,910	334,603
U. Texas M. D. Anderson Cancer Center	1	291,619	0	0	271,275	8,774	2,438	4,300	4,832	0	0	0
Texas A&M U., College Station and Health Science Center	2	205,190	597	4,545	92,457	133	2,798	75	5,847	1,831	91,003	5,904
SUNY, Polytechnic Institute	3	169,352	0	0	409	0	0	0	0	0	168,943	0
U. Florida	4	169,194	1,336	4,021	128,264	198	1,691	786	3,741	19	18,687	10,451
North Carolina State U.	5	123,750	293	7,063	72,898	2,398	2,857	104	2,103	719	30,616	4,699
Georgia Institute of Technology	6	107,480	632	4,558	9,923	3,583	8,825	1,970	4,879	0	70,432	2,678
U. Wisconsin-Madison	7	103,607	3,044	5,504	63,323	111	2,548	439	5,924	4,865	7,332	10,517
Cornell U.	8	92,178	39	29	72,026	100	1,032	2,270	5,612	0	3,717	7,353
Mississippi State U.	9	90,345	2,423	1,423	44,122	1,546	5,618	1,379	6,330	1,770	13,019	12,715
Rutgers, State U. New Jersey, New Brunswick	10	86,581	0	1,365	75,255	0	284	850	1,504	0	4,286	3,037
U. California, Los Angeles	11	81,216	0	2,489	68,824	34	15	345	6,070	0	2,226	1,213
U. Minnesota, Twin Cities	12	78,122	348	2,359	60,798	512	483	444	2,681	54	8,942	1,501
U. California, Davis	13	74,086	202	7,118	44,402	65	57	0	395	0	21,155	692
Louisiana State U., Baton Rouge	14	72,026	1,637	2,847	53,611	281	930	87	1,693	0	10,525	415
U. Texas Southwestern Medical Center	15	66,440	0	0	66,440	0	0	0	0	0	0	0
Virginia Polytechnic Institute and State U.	16	61,192	3,552	113	42,847	102	126	1	1,418	0	12,640	393
U. Arkansas, Fayetteville	17	54,705	61	0	37,822	0	2,850	5	4,311	0	3,972	5,684
U. Georgia	18	54,667	0	1,529	49,364	0	0	107	3,004	0	336	327
U. Nebraska, Lincoln	19	54,240	812	33	43,948	1,349	1,228	678	371	116	4,717	988
Washington State U.	20	51,641	199	1,688	36,643	0	632	48	3,112	0	3,349	5,970
Ohio State U.	21	50,614	5,304	56	30,499	0	10	270	652	543	10,013	3,267
North Dakota State U.	22	50,334	228	36	43,027	0	310	43	1,660	1,737	3,231	62
Oregon State U.	23	49,880	1,128	1,918	38,945	443	221	0	1,794	439	4,938	54
Michigan State U.	24	47,310	0	0	37,153	0	39	284	2,865	461	4,378	2,130
Pennsylvania State U., University Park and Hershey Medical Center	25	47,196	16	487	38,611	0	144	327	2,093	0	5,294	224
U. California, San Diego	26	45,233	41	11,528	29,543	717	830	0	0	0	1,927	647
Kansas State U.	27	42,624	37	188	33,568	386	0	42	1,643	1,684	1,610	3,466
U. Texas Health Science Center, Houston	28	42,174	0	0	42,174	0	0	0	0	0	0	0
Arizona State U.	29	40,835	841	1,082	1,287	108	599	177	1,282	26,588	5,674	3,197
Purdue U., West Lafayette	30	39,251	0	0	18,897	0	18	0	1,838	0	16,951	1,547
U. Maryland[a]	31	39,195	69	225	13,524	0	373	351	782	109	16,603	7,159

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Iowa State U.	32	36,709	0	0	23,313	594	0	0	2,349	833	9,071	549
U. Oklahoma, Norman and Health Science Center	33	35,983	116	3,296	15,641	27	920	43	3,354	0	3,233	9,353
U. Idaho	34	35,509	51	2,244	24,898	0	234	0	1,116	2,516	3,785	665
U. Kentucky	35	35,346	0	2	30,164	0	71	31	1,054	2	2,758	1,264
U. Houston	36	33,898	980	1,915	4,822	58	4,270	1,248	441	1	9,947	10,216
U. Arizona	37	33,210	2,312	1,966	14,228	0	4,890	40	618	2,964	6,168	24
U. California, San Francisco	38	32,635	0	0	32,528	0	107	0	0	0	0	0
U. California, Berkeley	39	32,598	0	14	9,382	0	2,455	29	2,116	1,704	16,171	727
U. California, Office of the President	40	31,777	0	0	31,777	0	0	0	0	0	0	0
Auburn U., Auburn	41	31,628	0	47	27,955	0	1	1	1,500	0	1,408	716
Baylor C. of Medicine	42	30,591	0	0	30,591	0	0	0	0	0	0	0
Texas Tech U.	43	29,341	483	1,286	9,659	143	900	791	1,598	0	5,585	8,896
Virginia Commonwealth U.	44	28,217	1	10	19,756	0	183	287	630	0	2,472	4,878
U. Maryland Center for Environmental Science	45	27,148	0	24,390	2,218	5	314	0	134	7	80	0
U. Washington, Seattle	46	27,087	202	2,677	6,501	0	18	0	652	0	3,279	13,758
Clemson U.	47	26,544	7	0	17,329	14	276	0	542	0	1,249	7,127
Stanford U.	48	26,257	0	517	24,583	0	0	0	0	0	1,036	121
U. Illinois, Urbana-Champaign	49	25,302	98	0	13,494	235	187	1,049	54	0	9,381	804
SUNY, U. Buffalo	50	25,016	42	0	13,347	36	54	0	266	0	5,674	5,597
U. Missouri, Columbia	51	25,000	96	0	20,484	21	196	287	1,159	0	1,083	1,674
U. Colorado Denver and Anschutz Medical Campus	52	24,563	0	0	23,142	0	5	0	84	0	361	971
U. Texas, Austin	53	23,611	107	798	8,049	0	756	179	541	0	12,358	823
Oklahoma State U., Stillwater	54	22,850	12	286	17,730	19	47	671	301	140	2,215	1,429
Utah State U.	55	22,820	118	222	15,128	102	351	496	764	0	5,252	387
U. Kansas	56	22,364	272	432	1,392	0	40	4,003	114	0	854	15,257
New York U.	57	22,203	0	0	15,235	0	0	0	283	0	2,194	4,491
U. Texas Health Science Center, San Antonio	58	21,895	0	0	21,895	0	0	0	0	0	0	0
New Mexico State U.	59	21,097	0	883	18,488	0	259	0	10	114	1,343	0
U. Texas, El Paso	60	20,684	327	264	7,707	227	954	749	626	2,797	4,480	2,553
U. Pennsylvania	61	19,955	2	0	18,669	0	0	0	85	148	65	986
U. Texas, Arlington	62	19,309	1,654	25	1,007	1,104	1,573	18	19	0	12,014	1,895
U. Hawaii, Manoa	63	19,229	0	407	16,145	0	0	0	621	869	1,153	34

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida International U.	64	18,582	248	1,779	1,018	0	1,954	7,152	1,643	110	2,976	1,702
U. Maine	65	18,487	404	5,263	4,656	7	1,497	61	364	1,396	4,372	467
Texas Tech U., Health Sciences Center	66	18,200	0	0	17,482	0	0	0	0	0	0	718
Montana State U., Bozeman	67	18,088	0	0	17,843	0	0	0	0	0	78	167
U. Wisconsin-Milwaukee	68	18,056	2	2,897	2,313	652	1,878	537	2,076	1,537	3,547	2,617
Colorado State U., Fort Collins	69	17,707	98	1,624	11,483	86	230	0	2,121	22	1,351	692
Wake Forest U.	70	17,361	0	0	17,361	0	0	0	0	0	0	0
South Dakota State U.	71	16,477	0	192	13,435	0	554	0	888	0	1,403	5
Old Dominion U.	72	16,403	144	641	5,754	55	727	427	474	0	7,526	655
U. Texas, San Antonio	73	16,210	289	249	6,212	21	1,477	440	617	41	3,803	3,061
U. Alabama, Tuscaloosa	74	16,018	6,848	321	98	0	0	69	511	0	5,289	2,882
U. California, Irvine	75	15,947	0	518	9,604	0	337	0	529	0	4,828	131
U. Tennessee, Knoxville[b]	76	15,100	0	806	1,656	156	1,042	10	1,816	1,437	8,074	103
U. South Florida, Tampa	77	14,824	24	2,026	5,100	0	132	0	3,668	0	3,495	379
U. Central Florida	78	14,653	41	97	2,929	0	143	14	622	272	2,083	8,452
U. North Dakota	79	14,272	336	447	203	0	136	70	0	238	12,813	29
SUNY, Stony Brook U.	80	13,795	0	3,738	1,452	0	108	0	49	2,078	6,350	20
SUNY, C. of Environmental Science and Forestry	81	13,768	25	517	12,516	0	81	140	42	31	343	73
U. Southern California	82	13,691	0	1,088	10,332	0	0	31	647	0	1,216	377
California State U., Sacramento	83	13,108	0	4	341	14	0	13	5,647	2,716	3,641	732
U. Southern Mississippi	84	12,374	0	2,580	2,133	0	2,429	0	500	0	0	4,732
U. Nebraska, Medical Center	85	11,932	0	0	11,932	0	0	0	0	0	0	0
Wayne State U.	86	11,699	0	0	8,767	0	82	0	958	260	404	1,228
U. Pittsburgh, Pittsburgh	87	11,600	0	34	11,093	0	0	0	236	39	158	40
U. Arkansas for Medical Sciences	88	11,085	0	0	11,085	0	0	0	0	0	0	0
U. Texas, Dallas	89	11,080	50	8	5,025	54	1,877	635	374	0	3,055	2
U. Miami	90	10,841	0	544	9,786	0	0	251	0	0	260	0
U. California, Riverside	91	10,827	138	763	3,669	0	0	58	353	0	5,696	150
U. Louisiana, Lafayette	92	10,812	3,874	927	420	40	622	26	0	0	2,961	1,942
U. North Texas, Health Science Center	93	10,787	0	0	10,772	0	0	0	15	0	0	0
U. Delaware	94	10,781	13	1,419	5,553	25	212	0	844	163	2,507	45
U. Louisville	95	10,365	59	0	7,464	0	76	36	69	0	1,335	1,326

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Rhode Island	96	9,302	47	1,930	1,985	0	32	588	285	1,896	704	1,835
Rochester Institute of Technology	97	9,210	272	0	41	11	2,229	0	1,270	0	5,126	261
West Virginia U.	98	8,958	0	43	7,580	0	0	0	153	1	938	243
U. Virginia, Charlottesville	99	8,780	549	0	2,551	0	235	0	157	0	404	4,884
Temple U.	100	8,556	0	202	5,281	0	197	0	216	161	401	2,098
U. Nevada, Reno	101	8,534	1,046	266	4,118	0	305	0	0	9	2,673	117
U. Massachusetts, Lowell	102	8,471	324	0	1,699	0	1,458	44	390	0	4,489	67
Texas A&M U.-Corpus Christi	103	8,436	0	1,806	1,449	0	16	0	39	120	3,568	1,438
Icahn School of Medicine at Mount Sinai	104	8,270	0	0	8,270	0	0	0	0	0	0	0
U. Alabama, Birmingham	105	8,209	0	0	4,836	0	116	59	10	0	1,121	2,067
U. North Carolina, Chapel Hill	106	8,129	0	511	2,583	0	0	2,700	480	0	787	1,068
U. Massachusetts, Amherst	107	7,779	243	46	3,156	0	6	0	0	0	3,718	610
U. Memphis	108	7,776	127	1,210	734	122	67	1,033	454	0	2,125	1,904
U. Texas Rio Grande Valley	109	7,566	0	5	4,980	163	937	44	18	5	331	1,083
Northern Arizona U.	110	7,342	658	472	3,803	0	1,711	0	86	0	612	0
U. Texas Medical Branch	111	7,302	0	0	7,302	0	0	0	0	0	0	0
Columbia U. in the City of New York	112	7,250	0	825	3,055	0	255	0	98	0	1,994	1,023
U. Maryland, Baltimore County	113	7,192	978	156	870	90	0	256	4,690	0	148	4
Rice U.	114	7,104	651	0	1,969	163	913	0	0	0	3,408	0
U. Minnesota, Duluth	115	6,935	0	161	6,254	0	47	0	0	0	432	41
Georgia State U.	116	6,910	14	139	1,490	0	5	354	1,546	0	0	3,362
U. Illinois, Chicago	117	6,772	2,008	0	2,794	0	0	45	999	0	46	880
Wichita State U.	118	6,645	0	0	19	0	0	0	0	0	6,579	47
San Jose State U.	119	6,297	0	3,162	17	0	37	0	0	0	67	3,014
Montana Technological U.	120	6,090	0	5,912	173	0	0	0	0	0	5	0
U. New Mexico	121	6,046	0	74	3,744	0	0	0	1,958	0	156	114
U. South Carolina, Columbia	122	6,028	113	49	686	23	642	175	183	0	488	3,669
U. North Carolina, Wilmington	123	6,013	0	3,413	2,378	0	0	0	139	40	6	37
U. California, Santa Cruz	124	5,870	0	2,183	1,815	0	529	0	273	0	1,070	0
U. Cincinnati	125	5,867	935	1	2,735	30	48	0	7	0	1,971	140
Johns Hopkins U.[c]	126	5,707	282	55	4,323	13	7	0	6	0	492	529
Medical U. South Carolina	127	5,666	0	0	5,666	0	0	0	0	0	0	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Connecticut	128	5,631	416	211	1,830	0	0	221	166	0	981	1,806
U. North Texas, Denton	129	5,524	109	177	1,087	24	124	161	0	0	3,776	66
U. Iowa	130	5,489	0	794	1,293	0	91	0	640	0	1,379	1,292
Rhode Island C.	131	5,448	0	0	258	0	0	0	6	0	0	5,184
Wright State U.	132	5,352	176	0	82	0	35	65	0	0	4,334	660
SUNY, U. Albany	133	5,201	42	1,271	3,412	0	140	0	34	0	63	239
U. Mississippi	134	5,171	0	9	4,343	0	0	0	26	0	11	782
U. Wyoming	135	5,164	0	315	1,792	90	0	0	130	0	2,837	0
U. California, Merced	136	5,108	0	316	210	0	144	863	202	0	3,373	0
Tulane U.	137	5,103	0	1,106	3,212	14	112	0	90	0	474	95
Yale U.	138	5,102	0	0	3,201	0	0	0	1,585	0	316	0
Rensselaer Polytechnic Institute	139	4,959	0	0	52	0	548	0	0	0	3,971	388
SUNY, Binghamton U.	140	4,957	166	3	557	0	678	34	16	0	3,503	0
U. Utah	141	4,908	94	327	1,299	0	100	170	242	0	1,553	1,123
Syracuse U.	142	4,812	0	0	95	0	0	27	0	0	1,648	3,042
Prairie View A&M U.	143	4,754	0	57	1,490	145	97	536	213	0	122	2,094
U. New Hampshire	144	4,695	17	187	3,612	0	0	0	140	0	124	615
Drexel U.	145	4,650	3	0	3,666	0	106	54	0	0	729	92
U. South Florida, Saint Petersburg	146	4,603	0	0	5	0	0	270	0	0	0	4,328
Florida Atlantic U.	147	4,581	106	8	2,092	112	546	21	51	0	871	774
Alcorn State U.	148	4,519	0	0	2,633	0	0	0	1,886	0	0	0
Scripps Research Institute	149	4,503	0	0	4,503	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	149	4,503	0	0	3,855	0	0	0	0	0	648	0
U. Colorado Boulder	151	4,435	0	320	356	0	664	0	1,544	264	1,118	169
Rowan U.	152	4,401	0	22	3,521	0	0	40	0	0	667	151
Florida State U.	153	4,391	50	176	1,806	0	180	6	872	0	760	541
U. California, Santa Barbara	154	4,335	0	2,847	540	0	136	0	100	0	127	585
CUNY, City C.	155	4,193	0	0	1,374	0	519	0	0	0	1,409	891
Portland State U.	156	4,178	3	141	805	94	0	50	1,363	0	817	905
Tennessee Technological U.	157	4,174	435	0	173	0	0	0	0	0	3,566	0
Humboldt State U.	158	4,147	0	200	2,112	0	7	0	62	0	1,625	141
U. Texas Health Science Center, Tyler	159	4,022	0	0	4,022	0	0	0	0	0	0	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas State U.	160	3,850	0	186	504	0	1	0	88	0	58	3,013
Northeastern U.	161	3,767	6	62	127	0	456	0	165	0	2,919	32
William & Mary	162	3,760	15	2,060	134	0	45	0	1,252	0	0	254
George Mason U.	163	3,750	16	0	359	0	114	0	485	0	2,772	4
Salisbury U.	164	3,638	119	556	1,490	0	0	0	343	0	0	1,130
Texas A&M U.-Kingsville	165	3,576	0	65	2,974	0	8	11	0	0	215	303
U. Massachusetts, central office	166	3,533	0	0	0	0	0	0	1,307	1,875	0	351
Indiana U., Bloomington	167	3,434	0	0	2,055	0	0	0	938	0	0	441
U. Alabama, Huntsville	168	3,407	1	861	0	0	24	0	0	0	344	2,177
U. North Carolina, general administration	169	3,370	1,158	0	222	0	75	0	0	0	1,915	0
Thomas Jefferson U.	170	3,330	0	0	3,330	0	0	0	0	0	0	0
U. Massachusetts, Boston	171	3,325	0	167	116	0	0	22	913	0	0	2,107
Kentucky State U.	172	3,294	0	0	3,294	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	173	3,150	0	0	3,150	0	0	0	0	0	0	0
San Diego State U.	174	3,073	101	21	1,816	0	0	876	19	0	93	147
U. Southern Maine	175	3,013	1,189	42	717	0	0	0	625	78	27	335
Arkansas State U., Jonesboro	176	2,987	120	0	2,656	2	104	0	36	5	64	0
New Jersey Institute of Technology	176	2,987	0	0	28	0	14	0	99	0	1,513	1,333
Texas Tech U., Health Sciences Center, El Paso	178	2,932	0	0	2,932	0	0	0	0	0	0	0
Creighton U.	179	2,929	77 i	52 i	2,110 i	22 i	152 i	33 i	184 i	0 i	0 i	299 i
California Polytechnic State U., San Luis Obispo	180	2,897	180	85	1,593	27	16	146	8	0	825	17
Tarleton State U.	181	2,779	58	1,854	413	0	14	0	19	0	0	421
California State U., San Bernardino	182	2,750	0	0	449	107	0	846	72	0	1,274	2
Carnegie Mellon U.	183	2,735	0	0	614	0	0	0	0	0	2,121	0
Nova Southeastern U.	184	2,652	0	1,628	1,024	0	0	0	0	0	0	0
Tuskegee U.	185	2,624	0	0	0	0	0	0	2,624	0	0	0
CUNY, Hunter C.	186	2,622	0	721	502	0	0	0	894	0	0	505
Louisiana Tech U.	187	2,606	802	0	81	0	254	0	0	0	728	741
Florida A&M U.	188	2,561	12	116	261	0	0	0	0	0	42	2,130
Alabama A&M U.	189	2,541	55 i	0 i	1,503 i	22 i	127 i	39 i	119 i	0 i	430 i	246 i
Vanderbilt U. and Vanderbilt U. Medical Center	190	2,527	0	0	998	0	0	0	0	0	47	1,482
U. Nevada, Las Vegas	191	2,493	0	109	872	0	0	0	76	0	347	1,089

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
West Texas A&M U.	192	2,440	62	76	2,012	0	0	0	0	0	0	290
California State U., Fresno	193	2,431	28	0	1,546	40	8	0	0	0	767	42
U. Alaska, Anchorage	194	2,385	0	51	491	0	0	0	915	498	202	228
Idaho State U.	195	2,365	38	384	328	0	82	6	13	334	1,180	0
Harvard U.	196	2,351	0	101	1,744	0	0	0	444	0	0	62
U. Alaska, Fairbanks	197	2,342	1	1,103	428	0	0	0	15	463	312	20
Southern U. and A&M C., Agricultural Research and Extension Center	198	2,338	0	0	2,338	0	0	0	0	0	0	0
Boise State U.	199	2,265	5	60	646	0	0	1	167	0	1,323	63
Morgan State U.	200	2,263	0	0	304	0	0	0	16	0	1,822	121
San Francisco State U.	201	2,243 i	96 i	395 i	544 i	99 i	258 i	142 i	328 i	19 i	128 i	234 i
Stockton U.	202	2,235	0	2,058	0	0	11	0	19	0	0	147
U. Baltimore	203	2,218	0	0	0	0	8	0	1,638	0	0	572
Lincoln U., Jefferson City	204	2,141	0	0	2,053	0	0	0	88	0	0	0
Colorado School of Mines	205	2,131	0	591	15	0	171	0	0	0	1,340	14
Oregon Institute of Technology	206	2,119	20 i	138 i	900 i	41 i	0 i	66 i	0 i	0 i	255 i	699 i
U. Rochester	207	2,110	0	264	1,231	0	457	0	0	158	0	0
Massachusetts Institute of Technology	208	2,104	0	0	0	0	0	0	107	0	1,981	16
U. Michigan, Ann Arbor	209	2,074	0	0	401	0	1	0	375	0	1,039	258
Florida Institute of Technology	210	2,028	300	1,141	0	0	61	61	0	0	374	91
Seton Hall U.	211	1,993	0	0	0	0	0	0	0	0	0	1,993
California State U., Long Beach	212	1,908	0	6	429	0	0	0	80	0	1,393	0
Lehigh U.	213	1,888	0	0	16	0	39	9	0	0	1,812	12
Rush U.	214	1,886	0	0	1,886	0	0	0	0	0	0	0
Central State U.	215	1,861	0	0	1,861	0	0	0	0	0	0	0
U. Nebraska, Omaha	216	1,845	703	0	518	24	35	0	398	0	26	141
Boston C.	217	1,801	0	0	0	0	28	3	1,681	0	0	89
Colorado State U., Pueblo	218	1,791	0	0	533	0	10	0	0	0	117	1,131
U. Arkansas, Pine Bluff	219	1,748	0	0	1,741	0	7	0	0	0	0	0
George Washington U.	220	1,740	0	0	1,600	0	0	0	10	0	112	18
U. Guam	221	1,706	0	0	1,695	0	0	0	0	0	0	11
U. of the Virgin Islands	222	1,700	0	591	1,109	0	0	0	0	0	0	0
U. South Dakota	223	1,683	0	0	699	0	639	0	0	0	334	11

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Woods Hole Oceanographic Institution	224	1,653	0	790	0	0	0	0	0	0	863	0
U. Massachusetts, Dartmouth	225	1,644	86	1,260	3	0	115	0	90	0	90	0
Tufts U.	226	1,634	0	0	774	0	0	110	346	0	264	140
Georgetown U.	227	1,613	0	0	511	0	0	0	646	0	0	456
West Virginia State U.	228	1,592	0	0	1,501	0	13	0	0	0	78	0
SUNY, Upstate Medical U.	229	1,557	0	0	1,557	0	0	0	0	0	0	0
U. North Florida	230	1,531	40	8	15	0	0	0	18	0	593	857
Stevens Institute of Technology	231	1,499	0	520	133	0	0	0	0	45	800	1
Indiana U.-Purdue U., Indianapolis	232	1,467	88	83	281	0	4	0	333	0	84	594
Rutgers, State U. New Jersey, Newark	233	1,460	0	0	1,347	0	0	61	28	0	0	24
Miami U.	234	1,446	0	0	1,153	0	0	8	26	0	116	143
Virginia State U.	235	1,431	0	0	1,130	0	0	0	0	0	1	300
California State U., Northridge	236	1,422	0	426	792	0	0	10	0	0	0	194
U. Massachusetts, Medical School	237	1,410	0	0	1,410	0	0	0	0	0	0	0
Ohio U.	238	1,398	179	360	54	0	0	0	54	0	427	324
California Institute of Technology	239	1,394	0	875	12	0	487	0	0	0	0	20
Clarkson U.	239	1,394	0	18	20	29	526	0	0	0	521	280
Villanova U.	241	1,386	0	21	0	0	0	0	0	0	1,365	0
U. Dayton	242	1,358	61	0	20	0	0	7	0	0	1,020	250
Howard U.	243	1,353	0	0	557	188	150	0	81	0	377	0
U. Illinois, Springfield	244	1,352	0	0	0	0	0	0	984	0	0	368
Austin Peay State U.	245	1,329	0	542	392	0	0	0	0	0	0	395
New York Medical C.	246	1,319	0	0	1,319	0	0	0	0	0	0	0
Stephen F. Austin State U.	247	1,316	0	176	925	0	3	0	0	0	0	212
Lamar U.	248	1,309	20	0	30	0	8	0	10	0	784	457
California State U., San Marcos	249	1,308	0	0	932	0	0	286	0	49	0	41
U. Toledo	250	1,254	0	137	373	0	0	0	37	0	262	445
Dartmouth C. and Dartmouth Hitchcock Medical Center	251	1,250	0	0	1,250	0	0	0	0	0	0	0
Illinois State U.	251	1,250	0	48	0	0	0	0	1,200	0	0	2
Saint Louis U.	253	1,202	0	0	1,199	0	0	0	0	0	0	3
U. North Carolina, Charlotte	254	1,176	7	12	296	0	0	0	0	0	520	341
South Dakota School of Mines and Technology	255	1,173	0	0	0	0	0	0	0	0	1,173	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	256	1,168	0	0	21	0	0	0	0	0	0	1,147
Baylor U.	257	1,153	0	274	412	0	100	177	0	0	0	190
Monmouth U.	258	1,149	0	1,107	42	0	0	0	0	0	0	0
Brigham Young U., Provo	259	1,128	0	106	367	0	0	29	0	0	356	270
Worcester Polytechnic Institute	260	1,121	9	0	0	0	399	0	31	0	653	29
U. Vermont	261	1,115	21	10	212	0	13	0	0	417	227	215
Bowling Green State U.	262	1,114	0	142	182	0	24	0	739	0	0	27
Northwestern State U. Louisiana	263	1,105	214	0	306	19	0	0	0	0	5	561
Marshall U.	264	1,073	0	0	318	0	70	0	0	0	152	533
U. Oklahoma, Tulsa	265	1,060	0	0	3	0	0	0	0	0	507	550
CUNY, Queens C.	266	1,054	0	240	814	0	0	0	0	0	0	0
Texas Southern U.	267	1,048	0	0	527	0	83	0	0	0	0	438
California State U., Monterey Bay	268	1,042	269	253	422	0	0	0	0	0	0	98
Northern Illinois U.	269	1,032	0	20	984	0	0	0	4	0	0	24
Emory U.	270	1,031	0	0	1,031	0	0	0	0	0	0	0
Brandeis U.	271	1,028	0	0	140	0	0	0	172	0	0	716
U. Montana, Missoula	272	1,026	0	20	980	0	2	2	20	0	0	2
CUNY, John Jay C. of Criminal Justice	273	1,014	0	0	0	0	0	102	0	0	0	912
Desert Research Institute	274	997	0	630	367	0	0	0	0	0	0	0
California State U., East Bay	275	992	0	615	30	0	0	0	0	0	29	318
U. Denver	276	964	0	0	0	0	59	55	27	0	99	724
Cleveland State U.	277	956	0	0	31	0	0	52	649	0	208	16
Duke U.	278	938	0	13	914	0	0	0	11	0	0	0
U. Wisconsin-Stevens Point	279	932	0	163	769	0	0	0	0	0	0	0
Eastern Washington U.	280	931	0	0	0	0	0	0	931	0	0	0
Loyola Marymount U.	281	921	0	7	0	0	0	591	238	0	85	0
St. Edward's U.	282	900	0	109	0	0	45	0	0	0	0	746
Washington U., Saint Louis	283	890	0	0	890	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	284	889	71	0	320	84	48	0	22	15	329	0
Southern Methodist U.	285	877	18	123	0	0	0	0	17	0	93	626
U. Central Arkansas	286	865	2	8	177	3	3	2	5	0	0	665
Alfred U.	287	857	0	0	0	0	0	0	0	0	857	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-La Crosse	288	848	27	15	162	21	188	7	274	53	0	101
Heidelberg U.	289	824	0	824	0	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	290	821	0	10	544	0	2	0	0	0	265	0
Florida Gulf Coast U.	291	814	0	199	67	0	53	0	0	0	22	473
Saint Joseph's U.	292	812	0	0	0	0	0	129	0	0	0	683
Case Western Reserve U.	293	805	0	0	378	0	0	0	79	0	210	138
Duquesne U.	294	798	0	0	114	0	26	0	0	0	14	644
Purdue U., Northwest	295	786	0	0	219	0	0	0	0	65	99	403
Xavier U. Louisiana	296	775	13	0	643	0	92	27	0	0	0	0
Loma Linda U.	297	754 i	0 i	0 i	754 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Chico	298	747	0	0	588	0	0	0	12	0	120	27
U. Oregon	299	746	0	9	36	0	88	0	48	0	0	565
Montclair State U.	300	724	0	41	341	0	0	0	0	0	0	342
U. Tulsa	301	720	0	0	83	0	103	118	0	0	416	0
Texas A&M International U.	302	707	80	49	56	0	0	3	1	0	29	489
Western Washington U.	303	706	0	532	10	0	0	0	0	0	68	96
Western Michigan U. and Homer Stryker M.D. School of Medicine	304	704	0	403	0	0	0	0	47	0	135	119
Texas Woman's U.	305	699	0	0	527	3	89	46	21	12	0	1
U. Colorado Colorado Springs	306	694	0	0	32	0	39	0	21	40	0	562
U. Akron	307	688	0	0	0	0	371	0	0	0	317	0
U. New Orleans	308	686	46	114	15	36	84	4	295	0	88	4
U. Puerto Rico, Mayaguez	309	681	0	54	0	0	0	0	0	0	627	0
U. West Florida	309	681	132	0	62	0	0	0	353	0	0	134
Georgia Southern U.	311	625	0	6	59	3	70	0	0	0	479	8
U. Central Oklahoma	312	624 i	0 i	0 i	12 i	5 i	5 i	0 i	0 i	0 i	0 i	602 i
American U.	313	622	0	0	0	0	0	0	90	239	0	293
East Carolina U.	314	620	96	8	158	36	2	0	16	0	158	146
SUNY, Buffalo State	315	619	0	0	587	0	0	0	29	0	0	3
CUNY, C. Staten Island	316	603	0	0	589	0	0	0	0	0	0	14
California State U., Channel Islands	317	574	0	0	549	0	0	0	0	25	0	0
Pittsburg State U.	318	570	0	0	52	0	0	0	0	0	518	0
Mercyhurst U.	319	568 i	15 i	10 i	410 i	4 i	29 i	7 i	35 i	0 i	0 i	58 i

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Grambling State U.	320	560	0	0	0	0	316	0	0	0	0	244
Marquette U.	321	539	0	0	37	0	0	0	0	0	457	45
Rockefeller U.	322	533	0	0	533	0	0	0	0	0	0	0
U. Notre Dame	323	530	30	0	297	0	52	0	14	0	129	8
Western U. of Health Sciences	324	522	0	0	0	0	0	0	0	0	0	522
Kent State U.	325	521	0	15	16	0	255	117	18	50	50	0
Boston U.	326	517	1	204	199	0	0	0	0	0	5	108
Delaware State U.	327	514 i	0 i	23 i	269 i	18 i	127 i	0 i	0 i	16 i	49 i	12 i
U. Houston-Clear Lake	328	513	8	0	276	0	0	4	4	0	2	219
Augusta U.	329	504	0	0	504	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	330	500	10 i	17 i	286 i	4 i	24 i	7 i	23 i	0 i	81 i	48 i
Western Kentucky U.	331	478	0	0	413	0	0	0	1	0	64	0
U. New Haven	332	473	0	13	0	0	0	0	450	0	10	0
Southern Illinois U., Carbondale	333	467	0	0	410	0	6	0	20	0	31	0
Tennessee State U.	333	467	0	0	13	0	102	0	0	0	108	244
Michigan Technological U.	335	456	0	22	0	0	0	0	0	115	319	0
Ball State U.	336	453	0	3	118	11	0	0	150	0	0	171
U. North Carolina, Greensboro	337	452	84	0	25	0	25	0	29	0	0	289
Kean U.	338	447	0	96	0	0	0	0	0	0	0	351
Medical C. Wisconsin	339	440	0	0	440	0	0	0	0	0	0	0
Hobart and William Smith Colleges	340	436	0	0	436	0	0	0	0	0	0	0
Fayetteville State U.	341	421	0	0	421	0	0	0	0	0	0	0
Middle Tennessee State U.	341	421	0	0	8	0	0	0	8	0	0	405
Claremont Graduate U.	343	408	0	0	0	0	0	0	92	0	0	316
Purdue U., Fort Wayne	343	408	0	0	48	0	0	0	0	0	0	360
U. Wisconsin-River Falls	343	408	0	0	9	0	60	0	0	0	0	339
Texas Christian U.	346	386	0	2	17	0	0	0	3	0	0	364
James Madison U.	347	373	18	13	59	0	44	28	4	1	5	201
North Carolina Agricultural and Technical State U.	348	369	4	0	66	0	37	0	0	0	203	59
St. Cloud State U.	349	366	42	185	18	0	0	0	50	0	0	71
U. Puerto Rico, Medical Sciences Campus	350	361	0	0	361	0	0	0	0	0	0	0
U. North Carolina, Asheville	351	349	0	0	85	0	153	0	2	0	1	108

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	352	343	0	6	319	0	18	0	0	0	0	0
U. Northern Iowa	352	343	0	0	117	0	11	0	208	0	0	7
Oregon Health and Science U.	354	334	0	0	334	0	0	0	0	0	0	0
Fordham U.	355	333	0	0	0	0	0	0	0	0	0	333
U. Nebraska, Kearney	356	330	0	0	249	0	55	0	25	0	1	0
Grand Valley State U.	357	323	0	110	195	0	0	0	0	18	0	0
Texas A&M U.-Commerce	358	313	0	0	282	0	0	0	0	0	22	9
Charles R. Drew U. of Medicine and Science	359	311	0	0	311	0	0	0	0	0	0	0
Santa Clara U.	359	311	0	0	311	0	0	0	0	0	0	0
Sonoma State U.	361	310	0	17	176	45	58	0	5	9	0	0
Southern Connecticut State U.	362	305	5	69	4	0	13	8	0	172	0	34
Princeton U.	363	300	0	0	238	0	0	5	0	0	27	30
Winthrop U.	364	293	0	0	16	0	20	0	236	0	0	21
U. Wisconsin-Eau Claire	365	292	0	0	34	0	216	0	6	0	0	36
Colorado C.	366	290	0	0	0	0	0	0	0	0	0	290
Florida Polytechnic U.	367	289	65	0	0	0	38	0	31	0	155	0
Pacific U.	367	289	0	0	66	0	3	0	0	220	0	0
U. Wisconsin-Platteville	369	285 i	1 i	17 i	104 i	5 i	23 i	8 i	18 i	0 i	28 i	81 i
Occidental C.	370	279	0	151	0	0	0	0	128	0	0	0
C. Charleston	371	275	0	8	106	0	5	0	0	0	0	156
Morehouse School of Medicine	372	273	0	0	273	0	0	0	0	0	0	0
Eastern Virginia Medical School	373	267	0	0	267	0	0	0	0	0	0	0
U. Central del Caribe	373	267	0	0	267	0	0	0	0	0	0	0
Teachers C., Columbia U.	375	265	0	0	48	0	0	145	72	0	0	0
Central Connecticut State U.	376	264	0	0	13	0	0	0	248	0	3	0
California State U., Fullerton	377	262	4	117	120	0	0	0	15	0	5	1
U. Northern Colorado	377	262	0	0	0	0	5	0	30	0	0	227
U. Arkansas, Little Rock	379	259	89	0	13	0	8	0	0	0	140	9
Niagara U.	380	258	0	0	12	0	0	0	0	0	0	246
Des Moines U.	381	255	0	0	0	0	0	0	5	0	0	250
Central Washington U.	382	242	0	36	186	0	0	0	20	0	0	0
Indiana State U.	383	241	0	0	241	0	0	0	0	0	0	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Alabama	384	239	0	13	85	0	0	0	0	0	141	0
U. of the Sciences Philadelphia	385	234	0	0	234	0	0	0	0	0	0	0
Hofstra U.	386	231	0	0	231	0	0	0	0	0	0	0
Missouri U. of Science and Technology	387	230	0	0	9	0	0	0	0	0	221	0
Western Carolina U.	388	228	0	12	104	0	0	0	0	0	0	112
U. Texas, Tyler	389	225	0	2	132	0	0	10	9	0	17	55
U. Chicago	390	224	0	0	106	0	0	0	54	0	0	64
Ponce Health Sciences U.	391	220	0	0	220	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	392	214	0	0	214	0	0	0	0	0	0	0
Southeastern Louisiana U.	393	213	15	0	21	0	30	0	31	0	0	116
U. of St. Thomas (MN)	394	212	0	6	192	0	14	0	0	0	0	0
U. Louisiana, Monroe	395	210	0	0	210	0	0	0	0	0	0	0
Franklin and Marshall C.	396	204	0	0	0	0	0	4	0	0	0	200
Appalachian State U.	397	199	0	0	127	58	6	0	8	0	0	0
CUNY, Brooklyn C.	398	198	0	80	0	0	0	0	0	0	118	0
Sam Houston State U.	398	198	0	0	35	0	0	0	21	0	0	142
Louisiana State U., Health Sciences Center, New Orleans	400	196	0	0	196	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	401	179	0	80	5	0	0	0	0	0	94	0
Lawrence Technological U.	402	174	0	0	0	0	0	0	0	0	167	7
Manhattan C.	402	174	0	0	0	0	0	0	0	0	174	0
U. Wisconsin-Superior	402	174	0	0	174	0	0	0	0	0	0	0
Emerson C.	405	171	0	0	0	0	0	0	171	0	0	0
CUNY, Advanced Science Research Center	406	169	0	0	34	0	0	0	0	0	0	135
U. San Diego	406	169	0	0	19	0	0	0	0	0	0	150
Western Illinois U.	408	168	0	0	0	0	0	0	168	0	0	0
CUNY, system office	409	164	0	0	0	0	0	0	0	0	164	0
Loyola U., Chicago	409	164	0	0	164	0	0	0	0	0	0	0
Weber State U.	411	159	0	0	43	0	15	0	0	0	0	101
New York Institute of Technology	412	153	44	0	0	0	0	0	70	0	0	39
California State U., Maritime Academy	413	151	0	0	0	0	0	0	0	0	151	0
California State U., Bakersfield	414	150	0	22	1	0	37	0	58	0	32	0
Indiana U. Pennsylvania	415	147	0	0	19	0	117	0	1	0	0	10

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oklahoma State U., Center for Health Sciences	415	147	0	0	101	0	0	35	0	0	11	0
New School	417	142	0	8	0	0	0	0	95	0	0	39
U. Minnesota, Morris	418	138	47	0	25	0	62	0	4	0	0	0
Johnson C. Smith U.	419	132	0	0	0	0	0	0	0	0	0	132
U. of the Incarnate Word	420	130	0	0	58	0	0	0	0	0	72	0
Youngstown State U.	421	128	0	2	5	0	0	0	0	0	121	0
Sul Ross State U.	422	126	0	0	126	0	0	0	0	0	0	0
Towson U.	422	126	0	0	20	0	0	0	8	0	0	98
Kennesaw State U.	424	121	36	0	25	0	0	0	60	0	0	0
Minnesota State U., Mankato	424	121	0	1	115	0	1	0	0	0	4	0
U. Houston-Downtown	426	120	0	0	28	0	0	0	23	0	0	69
U. Washington, Tacoma	426	120	0	118	2	0	0	0	0	0	0	0
Coastal Carolina U.	428	119	0	119	0	0	0	0	0	0	0	0
Catholic U. of America	429	118	0	0	0	0	0	0	0	0	118	0
U. San Francisco	429	118	0	0	74	0	0	0	0	44	0	0
Albany State U.	431	116	0	0	116	0	0	0	0	0	0	0
North Carolina Central U.	431	116	0	0	36	0	0	0	0	0	0	80
U. Missouri, Kansas City	433	110	17	0	0	0	0	30	21	0	0	42
U. Hawaii, Hilo	434	102	0	0	38	0	0	0	64	0	0	0
Black Hills State U.	435	98	0	0	60	19	19	0	0	0	0	0
U. of the Pacific	436	96	0	0	87	0	0	0	0	0	0	9
Azusa Pacific U.	437	95	0	0	0	0	0	0	95	0	0	0
Clark U.	438	93	0	0	0	0	0	0	93	0	0	0
Rutgers, State U. New Jersey, Camden	439	91	0	0	0	0	0	3	34	0	0	54
Southern Illinois U., Edwardsville	440	90	0	13	54	0	0	0	12	0	0	11
Dickinson C.	441	87	0	0	87	0	0	0	0	0	0	0
Dillard U.	441	87	0	0	40	0	47	0	0	0	0	0
Bradley U.	443	86	0	0	0	0	0	0	52	0	34	0
Northern Kentucky U.	443	86	0	0	1	0	0	0	0	0	0	85
Macalester C.	445	84	0	6	78	0	0	0	0	0	0	0
Roger Williams U.	446	80	0	55	0	0	0	0	0	0	25	0
CUNY, Graduate Center	447	78	0	0	0	0	0	0	10	0	0	68

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bucknell U.	448	76 i	4 i	1 i	7 i	4 i	6 i	2 i	2 i	5 i	21 i	24 i
California State U., Stanislaus	449	73	0	0	11	0	0	0	11	0	0	51
California State U., Los Angeles	450	72	0	0	72	0	0	0	0	0	0	0
Central Michigan U.	451	70	0	0	62	0	0	0	8	0	0	0
Pennsylvania State U., Harrisburg	452	67	0	0	0	0	0	0	20	0	0	47
Eastern Kentucky U.	453	66	0	0	65	0	0	0	1	0	0	0
U. Alaska, Southeast	454	65	0	35	30	0	0	0	0	0	0	0
Eastern Michigan U.	455	63	0	0	60	0	0	0	0	0	0	3
Touro U.	455	63	0	0	63	0	0	0	0	0	0	0
Mercer U.	457	62	0	0	25	0	0	0	0	0	37	0
Seattle U.	457	62	0	0	0	0	0	0	0	0	0	62
West Chester U. Pennsylvania	457	62	0	0	24	0	0	2	36	0	0	0
SUNY, Oswego	460	61	0	0	31	0	0	0	30	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	461	58	0	0	58	0	0	0	0	0	0	0
Oakland U.	462	57	0	0	40	0	5	0	0	0	0	12
Winston-Salem State U.	462	57	0	0	0	0	0	0	0	0	0	57
Rosalind Franklin U. of Medicine and Science	464	56	0	0	56	0	0	0	0	0	0	0
Claremont McKenna C.	465	52	0	0	0	0	0	52	0	0	0	0
Hawaii Pacific U.	465	52	0	33	0	0	0	0	19	0	0	0
Fort Lewis C.	467	51	0	12	39	0	0	0	0	0	0	0
Northeast Ohio Medical U.	467	51	0	0	5	0	0	0	0	46	0	0
Midwestern U.	469	50	0	0	50	0	0	0	0	0	0	0
Morehead State U.	469	50	0	0	50	0	0	0	0	0	0	0
East Tennessee State U.	471	49	13	0	31	0	0	5	0	0	0	0
Wellesley C.	471	49	0	0	0	0	0	0	0	0	0	49
Rhode Island School of Design	473	42 i	1 i	0 i	17 i	0 i	0 i	0 i	8 i	0 i	0 i	16 i
U. Washington, Bothell	473	42	0	0	0	0	0	0	0	0	0	42
U. Missouri, Saint Louis	475	40	0	0	9	0	0	0	31	0	0	0
U. North Georgia	475	40	0	0	0	0	0	0	0	0	0	40
Missouri State U.	477	37	0	0	33	0	0	4	0	0	0	0
Murray State U.	477	37	0	0	37	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	477	37	0	37	0	0	0	0	0	0	0	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Illinois Institute of Technology	480	36	0	0	36	0	0	0	0	0	0	0
Midwestern State U.	480	36	0	0	20	0	0	0	0	0	0	16
Dakota State U.	482	34	34	0	0	0	0	0	0	0	0	0
Bowdoin C.	483	33	0	33	0	0	0	0	0	0	0	0
Reed C.	483	33	0	0	0	0	0	0	33	0	0	0
C. New Jersey	485	32	0	0	2	0	0	0	0	0	30	0
California State U., Dominguez Hills	485	32	0	0	0	32	0	0	0	0	0	0
Cold Spring Harbor Laboratory	485	32	0	0	32	0	0	0	0	0	0	0
U. Texas of the Permian Basin	485	32	0	0	0	0	0	0	0	0	17	15
Brown U.	489	31	0	31	0	0	0	0	0	0	0	0
Pepperdine U.	489	31	0	0	0	0	0	0	31	0	0	0
Wesleyan U.	489	31	0	0	9	0	19	0	0	0	0	3
Calvin U.	492	30 i	11 i	2 i	4 i	0 i	4 i	0 i	4 i	0 i	4 i	1 i
U. Puerto Rico, Rio Piedras	492	30	0	29	0	0	0	0	0	0	0	1
Embry-Riddle Aeronautical U.	494	29	0	0	0	0	0	0	0	0	29	0
Fort Hays State U.	495	24	0	0	24	0	0	0	0	0	0	0
Mills C.	495	24	0	0	7	0	0	0	17	0	0	0
Southern U. and A&M C., Baton Rouge	497	23	0	0	0	0	0	0	0	0	23	0
SUNY, Downstate Medical Center	498	21	0	0	21	0	0	0	0	0	0	0
U. of Mary Washington	499	20	20	0	0	0	0	0	0	0	0	0
Biola U.	500	18 i	0 i	0 i	16 i	0 i	0 i	0 i	0 i	0 i	2 i	0 i
Carleton C.	501	17	0	0	0	0	0	0	0	0	0	17
Christopher Newport U.	501	17	0	0	17	0	0	0	0	0	0	0
Trinity U.	501	17	0	0	3	0	14	0	0	0	0	0
U. Michigan, Dearborn	504	16	0	0	0	0	0	0	0	0	16	0
Fisk U.	505	15	15	0	0	0	0	0	0	0	0	0
Lipscomb U.	505	15 i	0 i	0 i	15 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
CUNY, Baruch C.	507	14	0	0	0	0	0	0	14	0	0	0
Lafayette C.	507	14	0	0	0	0	0	0	0	0	0	14
Northwestern U.	509	12	0	0	12	0	0	0	0	0	0	0
Pomona C.	509	12	0	12	0	0	0	0	0	0	0	0
SUNY, Geneseo	509	12	0	0	12	0	0	0	0	0	0	0

TABLE 26

Higher education R&D expenditures funded by state and local governments, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Elizabeth City State U.	512	11	11	0	0	0	0	0	0	0	0	0
Furman U.	513	10	0	0	10	0	0	0	0	0	0	0
Kettering U.	514	8	0	0	0	0	0	0	0	0	8	0
West Virginia School of Osteopathic Medicine	514	8	0	0	8	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	516	7	0	7	0	0	0	0	0	0	0	0
Langston U.	517	4	0	0	0	0	0	0	0	0	0	4
Union C., Schenectady	517	4	0	4	0	0	0	0	0	0	0	0
Benedict C.	519	3	0	0	3	0	0	0	0	0	0	0
Edward Via C. of Osteopathic Medicine	519	3	0	0	3	0	0	0	0	0	0	0
U. Michigan, Flint	519	3	0	0	0	0	0	0	0	0	0	3
Andrews U.	522	2	0	0	0	0	0	0	0	0	0	2
Eastern Connecticut State U.	523	1	0	1	0	0	0	0	0	0	0	0
U. New England	523	1	0	0	1	0	0	0	0	0	0	0
Willamette U.	523	1	0	0	0	0	0	0	0	0	0	1

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $500 thousand in state and local government-financed R&D expenditures in FY 2020.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	21,946,790	578,481	658,966	11,954,881	223,162	1,257,087	374,133	1,163,690	410,334	2,720,559	2,605,497
U. Michigan, Ann Arbor	1	607,120	6,977	6,537	313,112	12,155	21,777	12,226	83,471	2,332	61,500	87,033
U. Pennsylvania	2	544,997	9,661	628	325,222	3,504	15,745	2,679	29,507	4,455	32,718	120,878
U. Wisconsin-Madison	3	435,653	6,165	20,191	285,884	1,081	14,479	2,345	17,994	10,011	32,854	44,649
U. California, San Francisco	4	418,048	0	0	407,295	0	10,753	0	0	0	0	0
Harvard U.	5	391,127	636	7,122	160,670	1,484	24,966	2,453	64,897	6,388	35,202	87,309
Yale U.	6	339,695	1,848	3,060	285,141	1,844	22,787	3,184	9,260	139	9,038	3,394
U. Minnesota, Twin Cities	7	333,014	12,461	4,483	230,002	2,442	8,320	5,598	10,446	1,646	29,100	28,516
U. California, Los Angeles	8	302,597	2,405	4,226	200,781	747	6,651	2,523	30,673	19,978	13,918	20,695
U. North Carolina, Chapel Hill	9	301,817	3,401	5,143	234,384	900	9,315	10,909	12,356	116	9,952	15,341
Texas A&M U., College Station and Health Science Center	10	291,325	6,608	14,899	103,887	2,662	19,761	2,253	8,645	2,895	117,645	12,070
U. California, San Diego	11	290,347	9,651	34,557	164,818	1,262	18,027	3,119	9,032	10,645	35,028	4,208
Michigan State U.	12	290,251	7,492	2,539	126,871	5,549	52,985	5,946	17,880	13,046	40,476	17,467
U. Maryland[a]	13	282,188	14,390	4,771	155,395	1,630	21,252	973	16,335	110	42,367	24,965
Indiana U., Bloomington	14	281,536	15,293	6,168	166,084	304	10,911	5,358	31,676	11,194	6,746	27,802
U. Pittsburgh, Pittsburgh	15	254,704	2,444	3,012	215,904	971	9,313	2,157	1,049	3,602	12,333	3,919
U. Florida	16	253,646	1,541	4,995	191,752	406	5,364	1,987	4,146	23	27,011	16,421
Arizona State U.	17	248,659	3,906	14,000	31,296	2,864	10,598	5,613	44,981	47,968	49,105	38,328
Northwestern U.	18	233,695	2,029	464	139,437	580	27,399	1,202	7,263	14,088	22,022	19,211
Cornell U.	19	232,628	4,981	1,179	147,536	430	17,141	3,354	9,242	0	27,896	20,869
Virginia Polytechnic Institute and State U.	20	231,204	14,029	1,119	80,966	2,923	9,061	2,303	6,720	56	107,280	6,747
U. Arizona	21	231,170	4,638	9,634	135,573	726	33,809	705	8,441	1,683	22,744	13,217
Emory U.	22	230,877	1,849	256	192,179	105	6,626	619	2,201	0	2,073	24,969
Rockefeller U.	23	230,148	9,058	121	216,345	1,149	3,475	0	0	0	0	0
Purdue U., West Lafayette	24	228,677	4,965	4,698	104,063	786	10,872	1,590	9,497	2,146	71,412	18,648
U. Iowa	25	225,307	805	632	168,159	210	3,769	1,717	3,267	2,285	23,013	21,450
New York U.	26	222,650	1,548	3	165,407	1,490	1,675	1,902	8,933	53	9,310	32,329
Baylor C. of Medicine	27	222,123	0	0	222,123	0	0	0	0	0	0	0
U. Georgia	28	220,201	2,542	10,026	100,985	5,030	6,280	8,628	13,446	5,818	9,464	57,982
U. Virginia, Charlottesville	29	212,843	3,445	1,373	144,085	180	5,953	2,554	7,316	607	21,583	25,747
Pennsylvania State U., University Park and Hershey Medical Center	30	211,889	9,879	14,386	61,129	3,180	29,882	11,282	10,502	0	60,920	10,729
U. Texas M. D. Anderson Cancer Center	31	209,905	0	0	189,107	3,282	6,323	8,253	2,940	0	0	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Utah	32	209,608	12,412 i	7,443 i	139,546 i	1,340 i	10,342 i	4,138 i	5,272 i	68 i	19,218 i	9,829 i
U. California, Davis	33	208,842	336	12,669	145,085	211	5,451	465	11,592	8,894	20,653	3,486
Vanderbilt U. and Vanderbilt U. Medical Center	34	197,502	0	738	112,982	655	12,084	7,506	3,360	0	38,478	21,699
U. Southern California	35	197,247	2,713	6,584	132,588	173	6,162	4,555	16,954	0	12,634	14,884
U. Illinois, Urbana-Champaign	36	186,309	19,537	464	80,657	1,434	15,611	3,796	2,575	10,459	39,471	12,305
U. California, Berkeley	37	181,355	2,118	2,603	54,955	636	16,527	4,141	27,619	16,981	36,204	19,571
Washington U., Saint Louis	38	172,213	347	325	156,650	43	3,799	768	433	1,199	2,279	6,370
Florida State U.	39	164,970	6,321	7,903	25,922	4,770	25,134	7,827	15,589	3,610	16,237	51,657
Boston U.	40	157,935	6,594	1,561	74,339	1,608	9,134	6,542	5,327	6,190	27,627	19,013
Johns Hopkins U.[b]	41	157,227	8,168 i	4,113 i	87,749 i	2,667 i	13,559 i	525 i	222 i	1,549 i	38,614 i	61 i
Duke U.	42	151,876	286	1,477	120,945	1,773	2,536	1,810	5,713	0	10,460	6,876
Ohio State U.	43	151,106	3,368	1,958	76,828	1,685	9,565	1,403	5,013	6,804	32,689	11,793
Dartmouth C. and Dartmouth Hitchcock Medical Center	44	150,097	9,444	3,704	48,714	4,477	12,033	3,981	18,825	2,225	7,479	39,215
U. Texas, Austin	45	147,947	8,261	21,653	31,365	5,652	18,079	1,305	4,646	2,486	28,989	25,511
U. Tennessee, Knoxville[c]	46	147,875	2,552	1,803	45,473	2,352	7,593	3,439	8,092	6,820	44,419	25,332
U. Cincinnati	47	144,949	973	748	96,893	656	3,775	550	3,206	383	24,180	13,585
U. Texas Southwestern Medical Center	48	137,027	0	0	137,027	0	0	0	0	0	0	0
U. Illinois, Chicago	49	135,744	2,828	395	98,411	1,674	4,621	1,134	4,677	4,440	11,786	5,778
Icahn School of Medicine at Mount Sinai	50	135,617	0	0	135,617	0	0	0	0	0	0	0
Scripps Research Institute	51	135,483	0	0	135,483	0	0	0	0	0	0	0
Stanford U.	52	132,235	549	3,543	95,473	308	5,467	3,015	5,070	27	12,376	6,407
North Carolina State U.	53	131,677	3,215	5,155	72,830	4,531	5,706	526	3,155	3,111	29,738	3,710
SUNY, U. Buffalo	54	131,323	7,411	1,102	83,158	430	3,548	1,540	3,927	1,147	25,984	3,076
Rutgers, State U. New Jersey, New Brunswick	55	130,582	1,086	4,896	89,251	2,409	8,341	2,657	3,288	2,344	7,918	8,392
U. Kentucky	56	130,570	1,624	1,074	92,521	160	1,209	516	1,259	11,630	14,883	5,694
Auburn U., Auburn	57	130,268	2,999	2,168	41,874	3,400	8,128	2,148	2,823	1,697	33,973	31,058
U. South Florida, Tampa	58	126,104	6,686	6,926	48,759	2,204	5,576	3,422	12,320	488	13,102	26,621
U. Nebraska, Lincoln	59	125,648	3,152	1,415	45,995	2,766	7,820	6,099	6,560	1,561	20,227	30,053
Iowa State U.	60	125,420	2,796	1,436	25,494	5,467	9,062	1,970	2,548	4,854	22,635	49,158
U. California, Irvine	61	123,966	5,116	1,623	69,537	1,217	6,279	3,366	6,460	535	17,277	12,556
U. Missouri, Columbia	62	123,624	208	22	78,570	176	1,051	1,100	1,626	1,534	33,961	5,376
Massachusetts Institute of Technology	63	119,003	18,484	4,209	13,911	1,303	15,033	20	3,112	2,153	53,470	7,308

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kansas	64	116,482	1,200	4,583	75,781	12	775	6,268	1,615	0	2,541	23,707
U. Alabama, Birmingham	65	116,242	110	4	106,064	38	628	500	21	0	4,244	4,633
Carnegie Mellon U.	66	115,615	36,176	8	3,470	8,382	9,834	1,437	6,852	1,742	34,278	13,436
Texas Tech U.	67	114,278	3,196	3,501	26,843	2,864	8,796	7,928	7,486	0	19,373	34,291
U. Oklahoma, Norman and Health Science Center	68	111,660	1,535	13,836	57,419	1,562	6,001	570	7,913	0	13,391	9,433
Oklahoma State U., Stillwater	69	111,227	4,919	1,787	31,273	3,607	6,714	5,448	4,891	5,624	16,737	30,227
U. Washington, Seattle	70	111,141	3,405	7,347	58,445	199	3,296	658	2,596	0	12,882	22,313
Florida International U.	71	104,836	5,885	4,067	29,176	1,321	13,314	8,394	11,447	303	12,836	18,093
Washington State U.	72	104,722	3,988	1,950	58,290	142	7,964	1,619	4,360	19	12,707	13,683
Georgia State U.	73	101,059	1,730	341	26,827	791	4,998	3,349	15,715	0	0	47,308
U. South Carolina, Columbia	74	100,802	2,609	4,354	39,221	586	1,620	3,315	8,659	271	23,597	16,570
Louisiana State U., Baton Rouge	75	99,412	899	18,040	40,833	84	6,375	414	1,307	10,891	14,240	6,329
Syracuse U.	76	97,654	3,690	1,649	5,279	2,220	6,172	2,151	9,834	82	14,269	52,308
Clemson U.	77	94,600	2,178	0	24,567	1,013	3,909	177	2,047	0	25,110	35,599
Temple U.	78	93,385	3,133	944	59,071	2,187	6,810	3,500	4,438	462	3,228	9,612
SUNY, Stony Brook U.	79	87,367	1,892	9,321	44,809	2,293	8,750	1,001	1,802	9,049	6,197	2,253
U. Central Florida	80	86,095	6,217	1,446	12,318	2,236	9,910	3,286	6,406	889	18,835	24,552
SUNY, Binghamton U.	81	82,764	4,694	1,662	9,522	2,740	9,746	8,667	15,331	0	19,098	11,304
Uniformed Services U. of the Health Sciences	82	82,613	0	0	80,660	0	0	1,953	0	0	0	0
Medical C. Wisconsin	83	81,608	0	0	79,797	0	0	0	0	0	1,811	0
Wayne State U.	84	81,190	872	167	55,273	523	6,380	523	1,363	7,259	4,316	4,514
U. Notre Dame	85	80,244	5,448	0	7,692	1,760	14,210	1,290	3,018	3,834	33,275	9,717
U. Connecticut	86	79,292	1,392	1,633	44,109	671	9,381	5,767	2,089	1,361	9,868	3,021
Princeton U.	87	78,989	4,131	2,645	17,195	3,573	18,719	1,931	13,554	0	11,481	5,760
Columbia U. in the City of New York	88	78,278	454	5,494	51,833	289	2,438	358	3,650	0	2,693	11,069
Kansas State U.	89	76,929	1,614	658	37,154	2,527	3,464	1,148	4,740	5,374	12,721	7,529
U. Hawaii, Manoa	90	76,169	806	15,883	39,128	44	9,929	37	1,522	907	6,045	1,868
U. Miami	91	75,755	174	2,214	67,954	448	656	2,129	842	4	1,022	312
U. Massachusetts, Amherst	92	75,307	8,922	1,266	21,933	1,077	9,585	2,013	1,782	1,059	19,722	7,948
Virginia Commonwealth U.	93	75,230	497	28	57,896	160	687	694	641	0	9,753	4,874
U. Nevada, Reno	94	74,320	2,918	5,602	27,222	1,524	3,952	2,898	4,388	1,893	9,645	14,278
U. Houston	95	74,188	1,924	2,028	7,481	507	36,373	2,263	206	90	14,330	8,986

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Vermont	96	73,959	1,504	1,229	45,247	1,393	2,105	1,412	3,881	918	5,706	10,564
Medical U. South Carolina	97	73,804	0	0	73,804	0	0	0	0	0	0	0
Georgia Institute of Technology	98	71,373	16,370	188	4,237	383	1,287	21	3,216	0	28,109	17,562
U. Colorado Denver and Anschutz Medical Campus	99	71,012	4	6	70,343	4	4	76	26	1	186	362
West Virginia U.	100	70,620	219	2,493	41,032	110	3,743	447	1,938	737	16,176	3,725
U. Arkansas for Medical Sciences	101	69,885	0	0	69,885	0	0	0	0	0	0	0
U. Nevada, Las Vegas	102	69,282	718	2,304	18,820	2,332	5,229	3,483	5,812	379	6,434	23,771
George Washington U.	103	66,453	3,896	129	32,598	228	2,944	469	7,231	811	6,096	12,051
Georgetown U.	104	66,181	1,739	0	41,236	284	1,551	470	8,399	63	0	12,439
Albert Einstein C. of Medicine	105	65,723	0	0	65,723	0	0	0	0	0	0	0
U. Texas, San Antonio	106	65,229	5,305	1,004	6,438	1,168	3,710	1,438	6,474	556	10,825	28,311
North Dakota State U.	107	64,673	2,742	340	34,611	961	3,085	1,517	8,404	1,105	6,731	5,177
U. Louisville	108	64,507	38	11	48,587	408	1,082	1,021	710	706	5,900	6,044
SUNY, U. Albany	109	61,302	3,667	6,695	8,179	1,555	3,611	3,789	15,278	0	2,217	16,311
Colorado State U., Fort Collins	110	61,093	307	8,492	32,870	259	1,559	170	2,130	518	5,306	9,482
U. New Mexico	111	61,092	1,002	531	38,020	61	886	1,182	2,852	6,204	7,486	2,868
U. North Texas, Denton	112	61,069	3,205	938	8,065	1,406	5,838	3,261	7,302	0	7,160	23,894
Rice U.	113	59,140	2,132	2,069	4,302	2,956	10,007	1,342	7,914	81	26,008	2,329
George Mason U.	114	58,447	1,488	867	20,926	717	732	893	22,486	0	2,625	7,713
Brown U.	115	56,188	3,986	1,647	24,340	2,604	5,830	363	7,213	771	4,660	4,774
Mississippi State U.	116	55,647	1,008	1,786	29,143	238	1,921	173	7,651	2,599	9,335	1,793
U. California, Santa Barbara	117	54,929	2,129	9,635	5,574	150	10,164	440	4,167	378	15,410	6,882
Thomas Jefferson U.	118	53,798	0	0	53,774	0	0	2	0	0	22	0
New Jersey Institute of Technology	119	53,611	5,129	0	2,540	2,897	6,957	0	5,616	21	20,751	9,700
U. Texas, Arlington	120	52,902	2,492	437	8,447	163	6,089	1,158	42	0	17,321	16,753
Tulane U.	121	51,577	448	1,066	29,724	102	1,788	351	2,898	0	2,012	13,188
U. California, Riverside	122	51,440	1,032	4,009	35,794	325	737	144	1,970	970	3,257	3,202
U. Arkansas, Fayetteville	123	51,260	2,718	772	18,363	22	2,406	520	1,351	75	11,158	13,875
U. Maine	124	50,890	934	8,333	12,644	770	2,640	864	1,107	5,312	11,372	6,914
San Diego State U.	125	48,934	768	910	9,652	2,992	3,188	4,851	3,464	3,609	3,312	16,188
U. Delaware	126	48,912	891	3,429	22,746	252	3,559	1,112	4,311	297	11,477	838
Case Western Reserve U.	127	48,786	0	45	41,336	12	597	190	850	234	4,654	868

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Institute of Technology	128	48,754	1,211	3,645	8,886	447	13,239	0	0	0	9,605	11,721
U. Rochester	129	46,412	519	347	39,775	6	2,137	903	40	600	1,945	140
U. Massachusetts, Medical School	130	45,329	0	0	45,329	0	0	0	0	0	0	0
Montana State U., Bozeman	131	45,253	297	2,177	16,405	1,246	5,143	207	786	1,755	7,890	9,347
U. Texas Health Science Center, San Antonio	132	45,061	0	0	45,061	0	0	0	0	0	0	0
U. Texas Medical Branch	133	44,544	0	0	43,857	0	0	0	0	0	687	0
Oregon Health and Science U.	134	44,413	0	0	43,042	0	0	0	0	0	1,371	0
U. Montana, Missoula	135	44,285	375	2,242	17,577	453	2,126	462	15,665	0	0	5,385
U. Texas Health Science Center, Houston	136	44,129	0	0	44,129	0	0	0	0	0	0	0
American U.	137	43,461	408	426	1,355	1,189	1,229	1,523	9,190	3,302	0	24,839
U. Nebraska, Medical Center	138	43,265	0	0	43,265	0	0	0	0	0	0	0
Northeastern U.	139	41,810	3,013	1,457	7,154	163	3,994	1,376	5,036	0	15,272	4,345
U. Alaska, Fairbanks	140	41,423	247	13,361	13,330	25	4,769	0	227	4,640	4,757	67
U. North Dakota	141	40,488	2,526	2,447	14,952	434	2,607	1,154	1,550	149	7,235	7,434
Augusta U.	142	40,408	33	0	40,194	0	0	33	73	0	0	75
U. Memphis	143	39,192	3,980	2,396	5,434	595	1,820	3,168	4,784	1,384	5,016	10,615
Drexel U.	144	38,742	1,126	0	25,212	83	620	514	876	1,349	6,709	2,253
U. New Hampshire	145	38,439	259	8,818	15,901	23	970	250	2,715	0	5,948	3,555
U. Texas, Dallas	146	36,906	2,361	441	9,091	334	4,716	125	476	0	12,058	7,304
U. Texas, El Paso	147	36,075	1,111	1,251	8,193	1,295	1,010	1,950	1,573	550	6,358	12,784
U. Massachusetts, Lowell	148	35,980	2,481	757	3,738	642	6,021	780	2,438	632	13,180	5,311
U. Colorado Boulder	149	35,695	179	1,120	3,914	20	4,221	380	1,770	243	17,094	6,754
Texas State U.	150	33,796	1,386	3,285	8,447	212	206	119	545	1,874	5,387	12,335
U. Chicago	151	32,978	565	323	20,092	234	3,593	638	3,690	0	2,352	1,491
Cold Spring Harbor Laboratory	152	32,295	0	0	32,295	0	0	0	0	0	0	0
Kent State U.	153	32,258	1,135	363	4,791	980	3,909	1,703	3,356	412	1,186	14,423
U. Louisiana, Lafayette	154	32,175	2,756	1,247	6,795	1,638	2,486	236	97	99	9,194	7,627
U. Alabama, Tuscaloosa	155	32,141	1,933	1,499	3,973	29	1,488	1,540	1,783	0	6,160	13,736
Michigan Technological U.	156	31,849	1,856	3,545	2,139	1,871	2,573	397	806	494	15,232	2,936
U. California, Santa Cruz	157	31,824	472	5,070	4,487	57	11,690	123	2,412	337	5,609	1,567
Rensselaer Polytechnic Institute	158	28,841	1,908	923	1,208	301	5,647	288	254	0	16,240	2,072
Van Andel Research Institute	159	28,709	0	0	28,709	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Office of the President	160	28,666	1,485	0	14,716	0	8,123	0	0	4,342	0	0
Ohio U.	161	28,659	97	553	8,535	12	1,786	602	699	0	7,489	8,886
U. Mississippi	162	28,635	106	503	16,934	160	3,444	588	1,395	0	1,162	4,343
East Carolina U.	163	28,538	519	3,456	13,086	39	875	471	1,025	0	2,397	6,670
Indiana U.-Purdue U., Indianapolis	164	28,006	1,507	445	6,630	83	894	441	6,403	3,499	2,054	6,050
U. Texas Rio Grande Valley	165	27,680	1,268	965	8,615	1,749	1,860	872	3,570	40	1,803	6,938
U. Oregon	166	27,587	1,248	1,613	4,739	24	3,206	1,276	6,472	0	0	9,009
U. Rhode Island	167	26,749	11	13,524	3,266	0	179	367	407	3,342	1,601	4,052
U. Tennessee, Health Science Center	168	26,628	0	0	26,295	0	0	0	0	333	0	0
Oregon State U.	169	25,759	752	2,312	17,646	31	49	22	702	303	3,885	57
U. West Florida	170	25,667	1,402	518	1,362	294	148	29	3,369	0	18	18,527
William & Mary	171	25,542	812	17,883	624	89	721	52	1,849	0	0	3,512
U. Massachusetts, Boston	172	25,435	714	1,798	3,433	435	965	1,408	6,495	453	500	9,234
U. South Alabama	173	24,879	141	1,264	22,401	0	56	87	165	0	754	11
Utah State U.	174	24,719	601	222	10,387	387	1,594	1,567	493	461	6,815	2,192
U. Wyoming	175	24,503	0	1,342	11,904	17	27	0	51	981	10,181	0
Wake Forest U.	176	24,365	165	0	20,602	395	663	239	303	0	491	1,507
Tufts U.	177	23,231	0	57	7,567	195	8,934	177	2,439	358	1,854	1,650
U. Alabama, Huntsville	178	22,569	1,301	2,248	2,301	724	3,584	218	268	0	7,507	4,418
Baylor U.	179	21,821	495	1,174	2,683	649	4,028	1,094	895	2,952	2,620	5,231
Saint Louis U.	180	21,359	258	164	19,140	2	500	29	110	0	435	721
Illinois State U.	181	21,288	42	214	581	57	32	15	892	0	0	19,455
Southern Illinois U., Carbondale	182	21,176	293	249	17,599	273	467	90	839	470	896	0
Southern Methodist U.	183	20,640	278	1,351	1,049	325	796	281	170	1,236	3,131	12,023
U. Idaho	184	19,536	227	919	12,386	84	295	33	686	803	3,506	597
U. Toledo	185	18,793	0	2,201	10,518	10	2,017	212	51	0	2,887	897
U. North Carolina, Charlotte	186	18,128	1,624	275	1,511	200	715	364	1,701	0	8,699	3,039
Villanova U.	187	17,542	347	345	2,680	58	1,877	690	346	0	6,888	4,311
U. Massachusetts, Dartmouth	188	16,761	1,038	5,331	1,196	455	1,671	90	372	0	5,538	1,070
Woods Hole Oceanographic Institution	189	16,741	0	14,364	0	0	0	0	0	0	2,377	0
Cleveland State U.	190	16,601	0	0	2,173	547	826	507	4,681	0	2,459	5,408
Missouri U. of Science and Technology	191	16,536	1,302	0	826	1	1,287	30	29	184	12,701	176

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. California, Merced	192	16,274	78	724	4,656	502	2,034	623	1,768	302	3,749	1,838
Rochester Institute of Technology	193	15,970	2,502	0	281	472	2,791	10	717	0	5,600	3,597
Northern Illinois U.	194	15,823	329	158	901	21	1,761	305	4,719	0	971	6,658
Northern Arizona U.	195	15,645	1,280	946	9,660	0	2,108	131	98	208	370	844
Marquette U.	196	15,058	454	0	4,202	364	758	878	900	0	2,432	5,070
Florida Atlantic U.	197	14,711	938	469	6,630	509	1,123	1,042	33	0	2,118	1,849
Kennesaw State U.	198	14,582	3,079	0	4,602	103	456	7	2,025	288	1,315	2,707
Louisiana Tech U.	199	14,576	935	84	1,675	518	1,060	478	294	0	4,834	4,698
Old Dominion U.	200	14,436	1,032	610	3,626	209	1,471	149	926	0	3,869	2,544
SUNY, Polytechnic Institute	201	14,251	0	0	248	0	0	0	0	0	14,003	0
Fordham U.	202	14,154	105	0	228	107	422	172	898	0	0	12,222
U. South Dakota	203	13,893	134	5	6,685	160	1,439	603	475	0	466	3,926
New Mexico State U.	204	13,809	579	504	5,240	32	3,785	47	90	72	3,173	287
U. Wisconsin-Milwaukee	205	13,648	21	2,152	1,861	293	1,485	403	1,151	1,265	2,325	2,692
Southern Illinois U., Edwardsville	206	13,531	112	1,486	6,065	605	675	0	212	372	1,031	2,973
U. Maryland, Baltimore County	207	13,493	2,777	2,138	1,425	242	666	251	865	1,018	1,518	2,593
Boston C.	208	13,420	188	1,879	2,130	96	1,471	788	3,228	0	0	3,640
San Francisco State U.	209	13,222 i	568 i	2,328 i	3,209 i	582 i	1,520 i	837 i	1,935 i	113 i	745 i	1,385 i
Boise State U.	210	12,867	540	749	2,538	222	1,016	8	1,009	341	3,938	2,506
North Carolina Agricultural and Technical State U.	211	12,766	104	5	9,579	70	419	5	6	0	1,486	1,092
Air Force Institute of Technology	212	12,612	785	252	0	161	2,814	0	0	0	8,600	0
Long Island U.	213	12,135	0	330	4,864	457	728	1,134	845	0	0	3,777
U. Minnesota, Duluth	214	11,746	109	710	8,591	44	293	25	57	0	1,541	376
Chapman U.	215	11,717	665	6	1,209	1	94	0	67	0	1	9,674
U. Southern Mississippi	216	11,194	30	2,931	1,086	0	997	0	292	0	3,960	1,898
Miami U.	217	10,959	420	453	5,181	123	919	366	110	0	2,693	694
Howard U.	218	10,860	819	0	7,623	24	714	277	140	0	1,063	200
Nova Southeastern U.	219	10,764	21	3,043	7,038	0	0	167	0	0	0	495
Montclair State U.	220	10,659	418	310	1,395	327	326	1,882	2,075	0	14	3,912
Delaware State U.	221	10,647 i	1 i	469 i	5,552 i	372 i	2,645 i	1 i	1 i	337 i	1,012 i	257 i
Brandeis U.	222	10,612	0	0	0	0	1,154	0	6,056	158	0	3,244
Bowling Green State U.	223	10,378	207	431	881	386	936	1,019	1,268	0	121	5,129

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Missouri, Kansas City	224	10,283	1,193	157	4,726	8	511	603	481	563	1,124	917
Naval Postgraduate School	225	10,059	2,598	266	0	624	513	0	1,309	631	2,652	1,466
Texas Christian U.	226	10,010	25	49	57	0	104	28	163	9,462	0	122
Wichita State U.	227	10,004	0	33	200	33	172	156	14	0	5,437	3,959
California Polytechnic State U., San Luis Obispo	228	9,932	35	57	2,093	384	3,160	39	123	0	1,710	2,331
Louisiana State U., Health Sciences Center, Shreveport	229	9,902	0	0	9,902	0	0	0	0	0	0	0
Bryn Mawr C.	230	9,742	438	260	597	444	1,031	295	1,484	0	0	5,193
Duquesne U.	231	9,566	0	264	5,626	112	1,622	189	1	0	214	1,538
U. Maryland Center for Environmental Science	232	9,503	0	9,503	0	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	233	9,460	0	0	9,460	0	0	0	0	0	0	0
U. New Orleans	234	9,355	894	307	807	353	1,010	459	1,215	397	1,561	2,352
Mercer U.	235	9,247	121	0	5,717	224	2,038	258	59	140	545	145
Worcester Polytechnic Institute	236	9,165	1,495	0	746	595	708	0	147	0	5,199	275
CUNY, City C.	237	8,968	254	121	1,456	54	1,715	114	6	0	4,819	429
U. Puerto Rico, Mayaguez	238	8,960	0	1,290	378	0	244	0	49	0	6,383	616
CUNY, Hunter C.	239	8,847	195	367	2,942	53	629	2,006	1,480	0	0	1,175
Texas Tech U., Health Sciences Center	240	8,839	0	0	8,705	0	0	0	0	0	0	134
Midwestern U.	241	8,776	0	0	8,776	0	0	0	0	0	0	0
Rush U.	242	8,712	0	0	8,712	0	0	0	0	0	0	0
Central Michigan U.	243	8,581	104	500	3,638	65	401	126	15	1,815	645	1,272
U. Puerto Rico, Rio Piedras	244	8,387	132	616	640	21	892	0	872	527	71	4,616
Lehigh U.	245	8,181	810	251	267	13	955	156	73	30	5,262	364
Marshall U.	246	8,169	33	57	4,169	1	835	0	5	0	475	2,594
U. South Florida, Saint Petersburg	247	8,119	0	0	719	0	0	506	3	0	0	6,891
Loyola U., Chicago	248	7,961	21	116	7,063	17	152	139	151	0	0	302
U.S. Air Force Academy	249	7,841	0	0	0	0	0	0	0	0	0	7,841
Wright State U.	250	7,833	984	64	4,486	73	351	156	0	252	1,356	111
William Paterson U.	251	7,575	124	144	1,107	185	252	874	1,083	0	0	3,806
Tarleton State U.	252	7,526	354	898	2,406	124	236	294	620	247	156	2,191
Stevens Institute of Technology	253	7,443	22	40	67	0	13	0	0	0	7,065	236
Sam Houston State U.	254	7,379	18	72	1,024	19	39	388	1,549	53	16	4,201
Western Michigan U. and Homer Stryker M.D. School of Medicine	255	7,351	14	354	4,076	21	391	79	27	1	1,493	895

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Texas, Health Science Center	256	7,265	0	0	6,973	0	0	0	292	0	0	0
U. North Florida	257	7,209	87	2	1,041	70	267	96	449	0	1,407	3,790
U. Denver	258	7,145	0	23	1,221	3	1,352	1,491	82	0	660	2,313
Western Washington U.	259	6,980	44	2,537	578	130	208	322	505	0	398	2,258
Creighton U.	260	6,845	179 i	122 i	4,933 i	52 i	352 i	77 i	432 i	0 i	0 i	698 i
Azusa Pacific U.	261	6,704	34	0	1,886	64	191	860	179	0	31	3,459
Edward Via C. of Osteopathic Medicine	262	6,443	0	0	6,443	0	0	0	0	0	0	0
Brigham Young U., Provo	263	6,386	111	82	2,774	14	127	23	139	0	1,469	1,647
James Madison U.	264	6,365	283	150	895	46	505	1,303	0	0	102	3,081
U. Akron	265	6,355	1	60	674	13	2,419	84	20	1	2,443	640
SUNY, C. of Environmental Science and Forestry	266	6,258	51	180	5,521	0	76	40	42	8	262	78
U. Puerto Rico, Medical Sciences Campus	267	6,251	0	0	6,251	0	0	0	0	0	0	0
Oakland U.	268	6,215	193	0	2,871	0	2,738	0	19	0	392	2
Tennessee State U.	269	6,141	9	0	5,697	7	196	2	0	0	230	0
U. North Carolina, Greensboro	270	6,039	83	0	1,680	38	644	614	268	0	0	2,712
Eastern Michigan U.	271	5,950	376	154	1,106	154	506	139	887	8	273	2,347
Rutgers, State U. New Jersey, Newark	272	5,902	0	93	1,770	0	411	445	659	56	0	2,468
Louisiana State U., Health Sciences Center, New Orleans	273	5,881	0	0	5,881	0	0	0	0	0	0	0
U. Missouri, Saint Louis	274	5,875	825	0	2,737	29	659	92	646	9	0	878
Ball State U.	275	5,703	430	3	1,116	5	505	150	1,202	0	0	2,292
U. Texas Health Science Center, Tyler	276	5,581	0	0	5,581	0	0	0	0	0	0	0
California State U., Sacramento	277	5,520	73	33	515	80	87	207	1,777	100	836	1,812
Morehouse School of Medicine	278	5,504	0	0	5,504	0	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	279	5,486	95	0	5,046	0	0	202	0	0	123	20
California State U., East Bay	280	5,434	268	301	809	896	395	371	506	0	62	1,826
U. San Diego	281	5,418	0	7	112	84	375	84	177	68	566	3,945
SUNY, Downstate Medical Center	282	5,396	0	0	5,396	0	0	0	0	0	0	0
Langston U.	283	5,374	0	0	5,343	0	0	0	0	0	0	31
Clark U.	284	5,338	13	383	440	0	867	527	2,686	47	0	375
West Chester U. Pennsylvania	285	5,277	7	65	558	108	295	107	843	0	0	3,294
Texas Tech U., Health Sciences Center, El Paso	286	5,211	0	0	5,142	0	0	0	0	0	0	69
U. Tennessee, Chattanooga	287	5,073	31	0	72	24	4	11	6	2,987	200	1,738

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgia Southern U.	288	5,068	49	595	652	34	954	27	101	0	913	1,743
Florida A&M U.	289	4,997	0	377	2,491	0	44	0	0	0	226	1,859
Texas A&M U.-Corpus Christi	290	4,691	17	1,395	833	21	94	0	9	345	280	1,697
Portland State U.	291	4,680	36	217	981	43	236	42	472	446	561	1,646
Indiana U. Pennsylvania	292	4,647	331	54	343	26	40	517	742	0	0	2,594
Loyola Marymount U.	293	4,593	24	419	225	66	86	216	1,005	0	80	2,472
Claremont McKenna C.	294	4,512	0	0	0	0	0	3	4,106	29	0	374
Rosalind Franklin U. of Medicine and Science	295	4,474	0	0	4,472	0	0	2	0	0	0	0
Clarkson U.	296	4,425	77	20	346	165	655	86	48	0	2,531	497
Desert Research Institute	297	4,345	0	3,725	620	0	0	0	0	0	0	0
Grinnell C.	298	4,328	275	0	449	331	299	171	661	0	0	2,142
Prairie View A&M U.	299	4,309	0	0	1,568	0	767	0	0	0	1,733	241
Colorado School of Mines	300	4,255	15	553	0	12	393	0	30	0	3,243	9
Western Kentucky U.	301	4,250	13	585	1,074	16	665	490	87	0	393	927
San Jose State U.	302	4,100	0	1,169	252	0	297	414	110	2	337	1,519
Roseman U. of Health Sciences	303	4,099	0	0	4,099	0	0	0	0	0	0	0
Middle Tennessee State U.	304	4,098	29	39	611	35	184	0	749	0	106	2,345
Albany Medical C.	305	4,069	0	0	4,069	0	0	0	0	0	0	0
Des Moines U.	306	4,068	0	196	3,138	0	0	0	389	0	0	345
U. Alaska, Anchorage	307	4,030	15	636	1,165	0	30	0	737	1,010	239	198
U. Michigan, Dearborn	308	3,984	11	0	64	40	100	40	110	0	3,003	616
Rowan U.	309	3,737	28	22	842	0	41	20	50	0	2,620	114
Texas A&M U.-Kingsville	310	3,711	0	393	2,489	0	9	1	0	45	300	474
Northeast Ohio Medical U.	311	3,655	0	0	3,560	0	0	0	3	91	0	1
Southern Connecticut State U.	312	3,649	6	108	995	35	178	194	482	0	0	1,651
U. Central Oklahoma	313	3,646 i	0 i	0 i	65 i	28 i	38 i	0 i	0 i	0 i	0 i	3,515 i
Idaho State U.	314	3,535	131	151	1,115	0	379	37	8	406	1,232	76
New School	315	3,503	0	91	4	0	0	554	1,235	144	171	1,304
Grand Valley State U.	316	3,475	9	2,087	388	34	11	26	350	6	236	328
Claremont Graduate U.	317	3,440	0	0	0	0	0	33	2,272	0	0	1,135
Loma Linda U.	318	3,382 i	0 i	0 i	3,382 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	319	3,362	0	0	3,362	0	0	0	0	0	0	0
Salisbury U.	320	3,359	159	244	844	113	191	18	139	0	0	1,651
Charles R. Drew U. of Medicine and Science	321	3,202	0	0	3,202	0	0	0	0	0	0	0
Florida Institute of Technology	322	3,191	230	356	217	112	574	686	0	33	630	353
South Dakota State U.	323	3,143	0	17	2,391	8	128	11	71	0	480	37
Wesleyan U.	324	3,137	0	268	478	139	712	179	254	0	0	1,107
U. Nebraska, Omaha	325	3,116	263	8	332	7	15	22	896	15	310	1,248
U. Tulsa	326	3,104	450	100	232	4	207	311	96	0	1,546	158
Bucknell U.	327	3,023 i	138 i	56 i	284 i	153 i	228 i	87 i	91 i	182 i	861 i	943 i
Clark Atlanta U.	328	3,016	7	0	2,542	0	227	0	0	0	158	82
CUNY, John Jay C. of Criminal Justice	329	2,968	2	0	36	0	102	422	51	2	0	2,353
Humboldt State U.	330	2,964	13	313	1,509	10	65	0	123	0	864	67
U. Oklahoma, Tulsa	331	2,936	0	0	1,974	0	0	0	87	0	149	726
Reed C.	332	2,897	7	0	363	72	716	254	220	0	0	1,265
Tennessee Technological U.	333	2,858	420	15	832	59	264	174	15	0	740	339
Tuskegee U.	334	2,706	0	0	1,251	0	0	0	118	0	1,337	0
Appalachian State U.	335	2,568	27	42	1,022	27	230	251	370	0	0	599
U. North Carolina, Wilmington	336	2,433	80	364	912	27	17	4	214	447	60	308
East Tennessee State U.	337	2,416	3 i	0 i	1,753 i	26 i	76 i	478 i	15 i	0 i	11 i	54 i
Philadelphia C. of Osteopathic Medicine	338	2,415	0	0	2,415	0	0	0	0	0	0	0
Gallaudet U.	339	2,414	110	1	856	3	5	851	7	0	0	581
U. Arkansas, Pine Bluff	340	2,309	0	0	1,618	0	115	0	0	572	0	4
California State U., Bakersfield	341	2,306	0	17	171	722	25	132	181	0	149	909
CUNY, Queens C.	342	2,304	35	220	966	33	398	73	234	0	0	345
Eastern Virginia Medical School	343	2,280	0	0	2,280	0	0	0	0	0	0	0
Swarthmore C.	344	2,278	8	0	320	30	309	53	169	71	367	951
Texas A&M U.-Commerce	345	2,252	29	0	324	22	158	210	95	0	24	1,390
Amherst C.	346	2,230	25	104	326	115	206	51	488	0	0	915
U. Dayton	347	2,195	99	7	30	4	18	24	38	0	1,631	344
U.S. Military Academy	348	2,184	0	0	0	0	0	108	0	2,076	0	0
Alcorn State U.	349	2,110	0	0	1,166	0	0	0	937	0	7	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Florida, Sarasota-Manatee	350	2,096	0	0	162	0	5	158	203	0	0	1,568
California State U., San Bernardino	351	2,093	71	1	64	99	121	335	65	13	324	1,000
Virginia State U.	352	2,061	0	0	1,214	0	0	0	0	0	847	0
Carleton C.	353	2,052	78	186	252	155	371	0	384	0	0	626
Pacific U.	354	1,961	0	0	1,394	32	87	2	6	200	0	240
California State U., Fresno	355	1,949	14	10	938	85	227	0	170	0	245	260
U. of the District of Columbia	356	1,922	0	0	1,922	0	0	0	0	0	0	0
Touro U.	357	1,876	0	0	1,876	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	358	1,871	0	0	1,871	0	0	0	0	0	0	0
Elon U.	359	1,828	36	0	299	0	83	65	252	0	15	1,078
California State U., Los Angeles	360	1,817	10	0	417	0	949	23	258	0	56	104
U. Arkansas, Little Rock	361	1,812	300	0	667	0	216	0	8	0	459	162
Colgate U.	362	1,768	23	147	326	25	324	74	229	0	0	620
Montana Technological U.	363	1,757	0	921	86	0	26	0	0	0	724	0
Franklin and Marshall C.	364	1,747	6	54	48	30	126	42	149	2	0	1,290
Illinois Institute of Technology	365	1,739	188	42	201	7	113	0	12	0	1,160	16
C. Charleston	366	1,727	31	162	195	71	120	42	88	226	0	792
U. New England	367	1,698	0	242	1,411	0	26	6	9	0	0	4
Williams C.	368	1,663 i	23 i	42 i	126 i	76 i	429 i	37 i	336 i	0 i	0 i	594 i
Eastern Connecticut State U.	369	1,621	86	100	204	79	0	141	2	267	0	742
New York Institute of Technology	370	1,592	12	0	1,565	0	0	0	0	0	15	0
South Dakota School of Mines and Technology	371	1,574	0	0	0	0	10	0	0	0	1,564	0
Pomona C.	372	1,564	0	159	136	47	346	213	384	6	0	273
U. Guam	373	1,555	0	88	1,467	0	0	0	0	0	0	0
Purdue U., Northwest	374	1,549	30	0	342	0	26	12	3	40	480	616
Lewis and Clark C.	375	1,527	1	14	27	46	48	10	12	0	0	1,369
California State U., Northridge	376	1,515	0	126	352	20	559	0	95	101	60	202
Toyota Technological Institute, Chicago	377	1,513	1,513	0	0	0	0	0	0	0	0	0
Hope C.	378	1,492	8	11	95	10	416	59	332	0	12	549
CUNY, Brooklyn C.	379	1,489	22	226	500	0	209	207	76	0	0	249
Catholic U. of America	380	1,429	0	0	225	0	394	110	91	0	341	268
Yeshiva U.	381	1,407	0	0	1,407	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Smith C.	382	1,401	63	21	408	55	50	62	131	5	144	462
U. San Francisco	383	1,372	60	39	234	9	65	39	196	12	6	712
St. Cloud State U.	384	1,358	22	30	163	0	11	8	58	7	23	1,036
West Texas A&M U.	385	1,327	28	81	749	1	9	0	0	0	306	153
CUNY, Advanced Science Research Center	386	1,308	0	48	354	0	580	0	0	0	314	12
Trinity U.	387	1,280	35	33	161	16	355	118	120	0	39	403
Pennsylvania State U., Harrisburg	388	1,277	127	0	0	0	0	0	1,150	0	0	0
Hamilton C.	389	1,270	89	9	55	18	205	97	248	0	0	549
U. Northern Colorado	390	1,267	0	49	411	58	67	33	146	0	0	503
California State U., Long Beach	391	1,235	7	16	402	12	94	41	51	88	270	254
Jackson State U.	392	1,226	68	0	281	6	588	0	37	70	176	0
Fayetteville State U.	393	1,185	0	0	654	0	0	0	0	0	0	531
Towson U.	393	1,185	90	0	403	124	266	19	85	0	0	198
Embry-Riddle Aeronautical U.	395	1,183	120	235	0	31	32	0	32	0	632	101
Haverford C.	396	1,168	40 i	83 i	532 i	40 i	210 i	52 i	211 i	0 i	0 i	0
California State U., Fullerton	397	1,163	46	39	323	11	127	40	46	116	63	352
U. Hawaii, Hilo	398	1,160	0	22	707	252	1	0	27	143	0	8
Central State U.	399	1,149	0	1	1,146	0	0	0	0	2	0	0
Rutgers, State U. New Jersey, Camden	400	1,136	0	0	225	10	354	56	258	0	0	233
Saint John's U., Collegeville	401	1,130 i	25 i	10 i	133 i	16 i	132 i	23 i	192 i	0 i	0 i	599 i
Pace U.	402	1,103	13	0	390	6	130	13	181	0	52	318
U. Ana G. Mendez, Gurabo	402	1,103	0	0	223	0	337	0	0	0	519	24
Furman U.	404	1,099	45	12	475	0	533	0	22	0	0	12
Saint Joseph's U.	405	1,084	18	0	270	6	152	150	50	0	0	438
Grambling State U.	406	1,080	0	0	0	0	180	0	0	0	0	900
Connecticut C.	407	1,071	165	0	183	0	237	138	348	0	0	0
Minnesota State U., Mankato	407	1,071	0	0	120	0	49	0	106	72	351	373
Texas Woman's U.	409	1,058	0	0	632	20	23	140	165	38	0	40
U. Central Arkansas	410	1,054	42	11	191	6	92	41	38	0	0	633
U. Washington, Bothell	411	1,045	0	0	0	0	0	0	0	0	0	1,045
U. Wisconsin-Stevens Point	412	1,044	0	60	917	0	10	0	1	0	5	51
U. of the Sciences Philadelphia	413	1,042	0	0	910	0	132	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. of Saint Benedict	414	1,026 i	28 i	11 i	149 i	17 i	147 i	27 i	65 i	0 i	0 i	582 i
Suffolk U.	415	1,010	0	0	0	0	0	0	0	0	0	1,010
Stockton U.	416	1,008	6	153	110	13	43	1	103	0	0	579
Babson C.	417	1,007	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1,007 i
Murray State U.	417	1,007	0	115	854	0	29	1	0	0	0	8
U. Illinois, Springfield	419	996	0	0	3	0	2	2	815	0	0	174
U. Nebraska, Kearney	420	961	6	4	662	8	123	11	43	0	0	104
SUNY, Oswego	421	945	32	30	65	0	114	13	47	516	94	34
Harvey Mudd C.	422	926	99	0	60	40	209	0	0	96	361	61
DePaul U.	423	925	80	15	94	0	69	269	16	0	0	382
St. Edward's U.	423	925	450	10	35	45	25	10	30	0	0	320
Colorado C.	425	917	0	44	136	23	57	115	145	0	0	397
Southeastern Louisiana U.	426	913	9	0	260	0	75	0	2	0	1	566
Austin Peay State U.	427	908	0	2	418	3	0	2	2	22	0	459
Christopher Newport U.	428	903	0	0	336	7	72	13	135	0	0	340
Kean U.	429	885	69	100	151	0	0	0	44	0	0	521
West Virginia School of Osteopathic Medicine	430	884	0	0	881	0	0	0	0	0	0	3
Xavier U. Louisiana	431	879	0	0	879	0	0	0	0	0	0	0
Northern Michigan U.	432	876	0	2	525	0	33	21	56	0	0	239
Albion C.	433	860	1	84	96	31	150	45	176	11	0	266
U. North Georgia	434	858	0	0	0	0	91	0	0	0	0	767
Northern Kentucky U.	435	854	13	0	277	10	204	160	94	0	0	96
U. Central del Caribe	436	846	0	0	846	0	0	0	0	0	0	0
Kettering U.	437	832	22	0	40	2	279	0	0	0	334	155
Albany C. of Pharmacy and Health Sciences	438	822	0	0	822	0	0	0	0	0	0	0
La Salle U.	439	804	45	0	0	0	0	2	38	0	0	719
U. of St. Thomas (MN)	440	801	0	5	80	1	114	0	8	0	276	317
Macalester C.	441	794	140	103	79	0	140	41	169	0	0	122
St. John's U., New York	442	789	9	0	503	0	80	63	0	0	0	134
Texas Southern U.	442	789	11	13	338	0	51	0	0	0	11	365
Dillard U.	444	771	0	0	582	0	0	0	189	0	0	0
Willamette U.	445	768	0	0	106	10	90	5	3	72	0	482

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Arkansas State U., Jonesboro	446	746	12	0	540	2	19	16	60	26	68	3
Purdue U., Fort Wayne	447	713	0	0	168	18	2	64	16	31	91	323
Bowdoin C.	448	707	12	109	327	2	54	4	59	0	0	140
C. Wooster	449	703	96	38	176	49	93	38	18	0	0	195
Stephen F. Austin State U.	449	703	0	0	98	1	5	2	119	0	1	477
U. Northern Iowa	451	702	0	142	56	1	64	0	435	0	0	4
Keck Graduate Institute	452	687 i	19 i	0 i	510 i	5 i	0 i	0 i	0 i	0 i	80 i	73 i
Marshall B. Ketchum U.	453	685 i	0 i	0 i	685 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Monterey Bay	454	683	19	153	431	67	0	0	0	0	0	13
SUNY, Geneseo	455	675	0	135	61	6	159	106	97	0	0	111
Missouri State U.	456	665	5	23	311	0	38	0	94	0	161	33
Alfred U.	457	662	0	0	0	0	0	0	0	0	662	0
St. Olaf C.	458	652	35	38	208	28	83	34	105	0	0	121
Texas A&M International U.	459	647	0	16	86	1	4	7	23	276	14	220
U. Minnesota, Morris	459	647	25	51	47	5	48	0	8	0	0	463
U. Puerto Rico, Cayey	461	639	0	0	488	0	18	0	58	75	0	0
U. Texas, Tyler	462	631	24	0	339	2	0	96	6	0	96	68
Pepperdine U.	463	623	0	0	89	32	56	47	90	0	0	309
U. Richmond	464	613	0	19	117	19	50	49	17	0	0	342
California State U., Dominguez Hills	465	600	67	13	63	31	163	32	49	0	0	182
U. of Mary Washington	466	594	10	28	45	8	8	20	23	0	0	452
Mercyhurst U.	467	592 i	16 i	10 i	426 i	5 i	30 i	6 i	37 i	1 i	0 i	61 i
U. Michigan, Flint	468	588	11	0	86	0	29	0	14	0	14	434
SUNY, C. Brockport	469	574	3	86	433	5	15	0	27	0	0	5
U. Hartford	470	568	0	0	0	0	0	0	0	0	383	185
U. Nebraska, central administration	470	568	0	0	568	0	0	0	0	0	0	0
Andrews U.	472	565	0	9	15	3	0	0	520	0	4	14
U. Wisconsin-Superior	473	563	0	0	333	0	0	0	230	0	0	0
U. Texas of the Permian Basin	474	562	0	0	7	0	22	1	0	36	0	496
Oregon Institute of Technology	475	561	6 i	36 i	238 i	11 i	0 i	17 i	0 i	0 i	68 i	185 i
Youngstown State U.	476	560	6	0	79	5	3	0	0	0	461	6
U. of Health Sciences and Pharmacy in St. Louis	477	547	0	0	547	0	0	0	0	0	0	0

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
La Sierra U.	478	531	0	0	95	0	1	78	0	0	0	357
Franklin W. Olin C. of Engineering	479	530	0	0	0	0	0	0	0	0	113	417
SUNY, C. of Optometry	480	524	0	0	524	0	0	0	0	0	0	0
U. Detroit Mercy	480	524	20	0	326	139	5	10	0	0	19	5
Lafayette C.	482	522	16	8	40	13	69	38	74	0	88	176
Liberty U.	483	513	0	0	101	2	0	15	5	0	63	327
California State Polytechnic U., Pomona	484	509	0	12	172	36	0	0	0	0	258	31
Manhattan C.	485	503	0	0	56	0	0	0	64	0	205	178
CUNY, Lehman C.	486	500	245	2	38	0	92	0	12	0	0	111
Palmer C. of Chiropractic, Davenport	486	500	0	0	500	0	0	0	0	0	0	0
California State U., Chico	488	491	0	0	305	5	22	9	11	0	109	30
U. Colorado Colorado Springs	489	486	12	23	39	0	62	0	24	82	63	181
CUNY, C. Staten Island	490	483	1	0	283	24	70	45	0	0	29	31
Union C., Schenectady	490	483	3	20	22	14	33	0	92	0	100	199
Florida Polytechnic U.	492	479	112	0	0	0	18	0	0	0	329	20
Western Carolina U.	492	479	0	30	203	3	63	0	53	0	71	56
Spelman C.	494	477	0	0	0	0	0	0	0	0	0	477
Barnard C.	495	467	8	15	117	5	42	51	125	0	0	104
Alabama A&M U.	496	448	9 i	0 i	265 i	4 i	22 i	7 i	22 i	0 i	76 i	43 i
Skidmore C.	497	441	6	23	138	12	95	45	26	0	0	96
Southern U. and A&M C., Baton Rouge	497	441	0	0	2	0	209	0	1	0	41	188
U. North Carolina, Asheville	499	435	0	8	139	0	48	0	0	0	0	240
CUNY, Baruch C.	500	434	0	6	82	1	1	10	193	0	0	141
U. Wisconsin-La Crosse	500	434	5	14	190	14	19	3	82	1	0	106
Rhode Island School of Design	502	426 i	14 i	0 i	176 i	0 i	0 i	0 i	70 i	0 i	0 i	166 i
Davidson C.	503	413	0	0	122	68	85	62	33	0	0	43
Central Connecticut State U.	504	407	21	6	45	17	22	8	65	0	23	200
Saginaw Valley State U.	505	398	3	36	111	1	4	11	40	2	165	25
Colby C.	506	388	0	12	105	11	68	1	79	0	0	112
Hobart and William Smith Colleges	507	384	0	9	283	0	7	7	13	0	0	65
U. New Haven	508	363	0	26	8	4	9	0	183	0	103	30
Oberlin C.	509	360	64	42	43	4	142	0	30	0	0	35

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Lutheran U.	510	359	14	0	172	16	53	24	16	0	0	64
SUNY, C. Plattsburgh	511	353	0	287	36	0	16	0	1	0	0	13
Trinity C., Hartford	511	353	4	0	72	16	27	0	91	0	36	107
Niagara U.	513	352	0	0	57	9	48	0	1	23	0	214
New Mexico Institute of Mining and Technology	514	345	13	32	0	0	0	0	0	0	300	0
California State U., Channel Islands	515	339	0	0	201	10	8	0	45	17	0	58
Central Washington U.	516	336	5	130	47	6	38	0	35	0	21	54
Morgan State U.	516	336	1	0	78	0	18	1	9	0	183	46
National U. of Natural Medicine	518	333	0	0	333	0	0	0	0	0	0	0
Dickinson C.	519	325	0	8	70	9	7	0	70	0	0	161
Meharry Medical C.	520	315	0	0	315	0	0	0	0	0	0	0
Eastern Kentucky U.	521	309	0	3	185	0	34	4	12	0	6	65
Wheaton C., Wheaton	521	309	9	11	41	11	84	59	70	0	0	24
Vassar C.	523	306	38	0	112	0	73	25	43	0	0	15
Roger Williams U.	524	301	0	219	23	17	3	5	2	0	5	27
Biola U.	525	300 i	7 i	0 i	197 i	2 i	13 i	3 i	18 i	0 i	31 i	29 i
SUNY, Buffalo State	526	293	0	50	163	0	1	13	52	0	0	14
U. Massachusetts, central office	527	285	0	0	14	0	0	0	144	25	0	102
U. Houston-Downtown	528	280	9	12	17	1	0	0	32	13	8	188
Emerson C.	529	279	0	0	0	0	0	0	0	0	0	279
California State U., San Marcos	530	272	0	0	0	0	0	0	127	97	0	48
Fairfield U.	531	255	6	0	47	1	31	21	15	0	6	128
U. South Carolina, Aiken	531	255	0	0	92	0	36	20	6	0	0	101
Western Illinois U.	533	254	0	4	200	0	18	0	31	0	0	1
Lipscomb U.	534	247 i	7 i	0 i	156 i	2 i	12 i	3 i	15 i	0 i	25 i	27 i
Sonoma State U.	534	247	8	20	58	5	22	10	32	5	1	86
Whitman C.	536	246	0	11	98	0	93	25	19	0	0	0
CUNY, Medgar Evers C.	537	245	0	0	173	5	37	0	26	0	0	4
U. Southern Maine	537	245	1	0	53	0	0	0	174	0	0	17
New York Medical C.	539	243	0	0	243	0	0	0	0	0	0	0
U. Puget Sound	540	238	0	0	117	4	24	5	59	0	0	29
Northwestern State U. Louisiana	541	237	58	0	0	0	0	0	141	0	0	38

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mount Holyoke C.	542	227	1	0	17	0	3	159	20	0	0	27
Dakota State U.	543	220	220	0	0	0	0	0	0	0	0	0
Winthrop U.	543	220	0	0	20	0	52	0	43	11	0	94
U. Wisconsin-Eau Claire	545	219	0	2	53	9	85	20	43	0	0	7
Bates C.	546	212	0	13	39	4	34	14	44	3	0	61
Bradley U.	547	207	7	0	29	0	24	5	0	0	134	8
U. Washington, Tacoma	547	207	0	108	0	0	0	0	29	0	0	70
U. Wisconsin-Green Bay	547	207	4 i	7 i	117 i	2 i	10 i	3 i	11 i	0 i	34 i	19 i
Indiana State U.	550	204	0	10	103	0	0	1	0	0	1	89
Midwestern State U.	551	201	16	3	101	1	8	5	0	0	25	42
U. Hawaii, system office	551	201	21	180	0	0	0	0	0	0	0	0
U. Wisconsin-Platteville	553	189 i	1 i	9 i	69 i	3 i	17 i	5 i	11 i	0 i	20 i	54 i
U.S. Naval Academy	554	186	5	0	0	20	24	0	0	0	137	0
Saint Michael's C.	555	182	0	0	57	0	125	0	0	0	0	0
U. Puerto Rico, Humacao	556	177	0	0	0	0	168	0	0	9	0	0
Ithaca C.	557	170	0	2	28	0	57	7	11	0	0	65
CUNY, Graduate Center	558	169	0	0	17	0	0	4	17	0	0	131
Fort Hays State U.	559	168	0	10	68	0	55	3	10	0	0	22
New England C. of Optometry	560	166	0	0	166	0	0	0	0	0	0	0
CUNY, system office	561	163	47	0	0	0	0	0	0	0	0	116
Seattle U.	562	160	1	0	14	2	27	0	15	0	13	88
Stonehill C.	563	159	0	0	0	0	0	0	0	159	0	0
West Virginia State U.	563	159	11	0	136	0	12	0	0	0	0	0
CUNY, York C.	565	156	0	65	22	0	58	0	1	0	0	10
U. of the Incarnate Word	566	155	0	0	99	0	0	0	0	0	0	56
C. New Jersey	567	153	0	0	104	2	3	7	17	0	11	9
Colorado State U., Pueblo	568	152	0	0	62	0	8	0	0	0	46	36
Doane U.	569	148 i	10 i	0 i	78 i	0 i	55 i	0 i	0 i	0 i	0 i	5 i
Kenyon C.	570	146	0	0	14	16	71	29	9	0	0	7
Gettysburg C.	571	144	0	16	4	0	23	19	17	0	0	65
CUNY, New York City C. of Technology	572	136	0	0	102	0	12	0	6	0	14	2
Lamar U.	572	136	40	0	6	0	3	0	0	0	12	75

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
St. Bonaventure U.	572	136	0	0	0	0	0	0	0	0	0	136
Citadel Military C. South Carolina	575	135	2	0	52	3	23	2	10	0	21	22
Morehead State U.	576	133	5	9	1	0	0	4	48	0	63	3
Middlebury C.	577	132	0	0	132	0	0	0	0	0	0	0
Providence C.	578	127	0	10	61	0	10	0	14	0	0	32
U. Ana G. Mendez, Carolina	578	127	0	0	52	0	0	2	0	0	73	0
Hampton U.	580	124	0	0	0	0	0	0	0	0	0	124
Sul Ross State U.	581	119	0	0	78	0	0	0	41	0	0	0
Fort Valley State U.	582	115	0	0	89	26	0	0	0	0	0	0
Black Hills State U.	583	114	28	0	73	0	6	0	0	0	0	7
Columbus State U.	584	105	17	0	20	8	7	0	17	0	0	36
Florida Gulf Coast U.	585	103	0	0	0	0	0	0	0	0	70	33
Erikson Institute	586	96	0	0	0	0	0	0	0	0	0	96
Hofstra U.	586	96	0	1	28	2	6	12	2	0	1	44
Rhode Island C.	588	93	0	0	19	0	5	0	0	0	0	69
Seton Hall U.	589	88	0	0	0	0	0	0	0	0	0	88
California State U., Maritime Academy	590	85	0	0	0	0	0	0	0	0	85	0
California State U., Stanislaus	591	79	0	1	10	0	17	9	22	0	0	20
Fort Lewis C.	591	79	0	10	18	0	23	0	0	0	28	0
U. Alaska, Southeast	593	76	0	17	23	0	25	0	0	10	0	1
Merrimack C.	594	72	0	0	40	0	0	0	0	0	0	32
Mills C.	595	70	0	0	0	0	0	0	0	0	0	70
Monmouth U.	595	70	0	51	13	0	6	0	0	0	0	0
U. Louisiana, Monroe	597	69	0	7	62	0	0	0	0	0	0	0
Troy U.	598	66	5	2	2	2	0	3	20	0	0	32
Lawrence Technological U.	599	64	0	0	0	0	0	0	0	0	33	31
Coastal Carolina U.	600	61	0	61	0	0	0	0	0	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	601	52	0	0	52	0	0	0	0	0	0	0
Heidelberg U.	602	48	0	48	0	0	0	0	0	0	0	0
New Jersey City U.	603	39	0	0	8	5	0	3	0	1	0	22
Northwest Indian C.	604	36 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	36 i
U. Houston-Clear Lake	605	33	7	0	2	0	7	0	1	0	0	16

TABLE 27

Higher education R&D expenditures funded by institutional funds, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Weber State U.	605	33	33	0	0	0	0	0	0	0	0	0
Western U. of Health Sciences	607	29	0	0	29	0	0	0	0	0	0	0
Jacksonville State U.	608	28	0	0	28	0	0	0	0	0	0	0
Hawaii Pacific U.	609	27	0	0	24	0	0	0	3	0	0	0
U. of the Virgin Islands	610	26	0	16	0	0	0	0	0	0	10	0
MGH Institute of Health Professions	611	20	0	0	0	0	0	0	0	0	0	20
Keene State C.	612	19	0	0	0	0	19	0	0	0	0	0
U. Wisconsin-River Falls	613	7	0	0	2	0	1	0	0	0	0	4
Calvin U.	614	5 i	2 i	0 i	0 i	0 i	1 i	0 i	1 i	0 i	1 i	0 i
Norfolk State U.	614	5	0	0	0	0	0	0	0	0	0	5

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $56,997 thousand in institutionally financed R&D expenditures in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,184,925	156,246	84,585	3,388,718	13,335	170,038	15,469	49,205	32,902	1,129,319	145,108
Duke U.	1	205,719	85	265	196,378	233	295	9	488	0	4,429	3,537
Massachusetts Institute of Technology	2	200,722	31,241	2,620	14,956	1,780	25,025	0	5,046	11,988	75,246	32,820
U. Texas M. D. Anderson Cancer Center	3	194,528	0	0	192,432	317	1,623	18	138	0	0	0
U. Pennsylvania	4	176,969	846	0	173,416	0	1,062	189	153	0	1,190	113
Ohio State U.	5	150,235	4,730	82	100,001	56	818	0	549	358	42,711	930
SUNY, Polytechnic Institute	6	139,125	0	0	15	0	0	0	0	0	139,110	0
U. California, San Francisco	7	120,488	0	0	115,273	0	5,215	0	0	0	0	0
Stanford U.	8	114,967	9,785	800	77,388	92	5,063	336	769	0	20,597	137
U. California, San Diego	9	109,943	217	8,685	82,763	0	2,151	809	15	502	14,573	228
Johns Hopkins U.[a]	10	105,906	310	374	96,919	92	945	0	73	444	6,281	468
U. Michigan, Ann Arbor	11	96,044	659	86	55,469	349	1,740	65	1,091	0	35,816	769
Washington U., Saint Louis	12	93,981	235	0	91,414	0	111	52	2	0	341	1,826
U. California, Los Angeles	13	82,905	1,515	440	66,005	181	1,547	0	65	222	10,150	2,780
Wichita State U.	14	81,356	0	0	125	0	29	0	0	0	74,565	6,637
U. California, Berkeley	15	81,265	1,303	362	14,770	341	7,359	850	3,486	9,439	40,404	2,951
U. Louisiana, Lafayette	16	78,591	3,431	1,444	59,034	338	230	7	0	0	12,156	1,951
U. Texas, Austin	17	77,789	1,698	13,927	10,237	467	2,074	13	763	120	34,344	14,146
Columbia U. in the City of New York	18	77,105	1,306	4,779	67,181	0	321	90	0	0	3,052	376
Purdue U., West Lafayette	19	75,499	1,824	42	16,180	198	7,583	19	715	1	45,086	3,851
Yale U.	20	72,714	201	0	68,698	0	912	0	293	0	1,627	983
Vanderbilt U. and Vanderbilt U. Medical Center	21	70,229	0	87	67,062	0	115	104	320	0	1,896	645
Georgia Institute of Technology	22	63,120	5,096	141	5,395	0	1,240	0	1,058	0	49,104	1,086
Icahn School of Medicine at Mount Sinai	23	61,137	0	0	61,137	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, New Brunswick	24	60,291	15	296	55,773	0	2,118	408	70	0	1,494	117
U. Alabama, Birmingham	25	58,758	36	259	55,688	0	0	0	0	0	2,741	34
U. Washington, Seattle	26	57,698	1,490	399	45,115	0	489	148	10	0	9,804	243
Cornell U.	27	56,706	2,150	0	47,034	0	2,142	143	9	0	4,378	850
U. California, Davis	28	54,246	1,073	629	40,146	186	1,290	0	842	0	9,019	1,061
Emory U.	29	54,236	135	30	53,230	313	256	0	0	0	270	2
North Carolina State U.	30	53,302	746	1,587	22,847	914	792	608	963	889	18,353	5,603
Northwestern U.	31	52,440	1,378	0	43,815	0	1,125	0	786	960	4,032	344

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New York U.	32	51,010	745	19	41,893	784	316	544	2,076	0	1,359	3,274
U. Colorado Denver and Anschutz Medical Campus	33	50,627	18	0	49,880	0	0	241	38	0	449	1
U. North Carolina, Chapel Hill	34	49,974	380	197	47,110	0	1,496	0	228	0	451	112
Harvard U.	35	49,561	1,518	1,926	34,401	69	4,768	0	1,148	217	4,982	532
U. Minnesota, Twin Cities	36	48,857	90	16	39,578	229	1,847	187	678	78	5,666	488
U. Southern California	37	43,425	1,003	0	37,409	0	1,164	0	1,183	0	1,781	885
Virginia Polytechnic Institute and State U.	38	39,857	833	1	7,049	293	833	81	277	0	29,465	1,025
Oregon Health and Science U.	39	38,692	0	0	38,620	0	0	0	0	0	72	0
U. Cincinnati	40	38,587	0	0	32,285	44	415	21	103	594	4,659	466
U. Texas Southwestern Medical Center	41	38,500	0	0	38,500	0	0	0	0	0	0	0
U. Utah	42	38,458	798	781	33,743	0	174	930	183	0	1,665	184
U. Florida	43	37,922	188	0	30,541	0	1,356	196	61	0	5,022	558
U. Chicago	44	36,343	35	0	33,957	0	892	0	10	0	1,449	0
U. Illinois, Urbana-Champaign	45	36,178	10,031	213	11,977	26	2,015	362	0	30	10,805	719
Carnegie Mellon U.	46	36,121	29,236	0	164	0	257	0	209	0	6,252	3
Texas A&M U., College Station and Health Science Center	47	35,783	198	883	9,223	151	1,450	0	199	3	19,058	4,618
U. Miami	48	34,249	0	385	33,272	0	0	0	278	0	314	0
U. California, Irvine	49	33,033	989	136	23,548	0	2,483	550	43	0	5,272	12
U. Rochester	50	30,271	0	0	26,108	0	2,565	279	0	748	571	0
SUNY, U. Buffalo	51	29,881	150	0	14,821	0	256	0	188	0	14,224	242
U. Virginia, Charlottesville	52	29,798	565	0	21,557	0	432	326	294	95	6,323	206
U. Pittsburgh, Pittsburgh	53	29,764	28	55	28,866	0	56	0	2	0	681	76
U. Wisconsin-Madison	54	29,589	308	455	21,535	12	1,884	215	19	836	4,241	84
Pennsylvania State U., University Park and Hershey Medical Center	55	29,131	938	375	11,055	162	3,704	270	546	0	10,604	1,477
U. Maryland[b]	56	28,881	1,025	407	21,294	0	625	0	289	504	4,630	107
U. Iowa	57	28,073	25	0	24,195	0	320	3	237	0	2,727	566
Indiana U., Bloomington	58	26,506	437	181	24,190	90	965	12	203	230	98	100
Baylor C. of Medicine	59	24,991	0	0	24,991	0	0	0	0	0	0	0
Medical C. Wisconsin	60	24,973	0	0	24,973	0	0	0	0	0	0	0
U. Arizona	61	23,040	124	817	15,425	11	2,742	3	92	0	3,671	155
U. California, Santa Barbara	62	22,578	762	4,822	958	0	4,007	147	137	0	11,745	0
Boston U.	63	22,430	1,695	0	17,743	0	484	106	0	22	2,314	66

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Scripps Research Institute	64	22,386	0	0	22,386	0	0	0	0	0	0	0
U. Kansas	65	22,089	0	369	19,752	0	71	76	13	0	1,750	58
Thomas Jefferson U.	66	20,915	0	0	20,883	0	0	2	0	0	30	0
Medical U. South Carolina	67	20,747	0	0	20,747	0	0	0	0	0	0	0
Princeton U.	68	19,932	2,831	2,570	2,362	749	3,545	1	1,456	0	6,413	5
U. Nebraska, Lincoln	69	19,215	60	45	13,308	40	957	0	76	128	4,456	145
California Institute of Technology	70	18,366	1,117	763	478	0	10,507	0	0	0	5,501	0
Georgetown U.	71	18,307	0	0	17,214	0	62	3	233	0	0	795
Iowa State U.	72	18,149	49	115	6,465	216	188	0	745	3	10,057	311
Arizona State U.	73	18,148	1,421	74	1,931	3	590	64	615	1,768	10,224	1,458
Clemson U.	74	18,120	285	0	3,040	13	251	15	121	0	11,061	3,334
Temple U.	75	17,721	0	0	17,178	0	44	61	0	0	207	231
U. Oklahoma, Norman and Health Science Center	76	17,698	83	1,099	12,881	0	141	7	156	0	3,298	33
U. Texas Health Science Center, Houston	77	16,479	0	0	16,479	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	78	15,594	4,405	96	3	1,027	1,629	604	0	0	7,334	496
U. South Florida, Tampa	79	15,525	47	93	14,307	0	81	49	39	0	866	43
U. Massachusetts, Medical School	80	15,073	0	0	15,073	0	0	0	0	0	0	0
U. Illinois, Chicago	81	14,766	293	0	13,920	0	0	3	0	0	549	1
U. Missouri, Columbia	82	13,749	82	0	12,210	0	245	0	0	0	1,055	157
Washington State U.	83	13,458	37	147	10,761	0	446	157	204	0	1,561	145
Colorado State U., Fort Collins	84	13,406	39	538	9,435	0	837	0	43	86	2,428	0
Wake Forest U.	85	13,228	0	0	12,855	0	0	0	19	0	0	354
Michigan State U.	86	13,141	605	0	5,779	72	753	6	73	18	3,971	1,864
U. Arkansas for Medical Sciences	87	12,826	0	0	12,826	0	0	0	0	0	0	0
Rush U.	88	12,732	0	0	12,732	0	0	0	0	0	0	0
Virginia Commonwealth U.	89	12,699	10	36	11,903	9	71	3	0	0	634	33
U. Central Florida	90	12,418	1,892	520	1,101	135	4,755	4	388	247	2,924	452
Texas Tech U.	91	11,588	172	541	3,583	94	573	620	1,053	0	2,321	2,631
U. Louisville	92	11,584	0	0	10,382	0	294	0	0	0	894	14
U. North Dakota	93	11,419	1	87	72	0	7	0	0	0	11,233	19
U. Connecticut	94	11,409	559	69	4,240	264	733	858	52	0	4,543	91
Louisiana State U., Baton Rouge	95	10,461	165	658	6,109	59	548	58	158	9	2,240	457

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tufts U.	96	10,162	0	128	6,921	2	10	0	333	29	2,198	541
Colorado School of Mines	97	10,072	208	2,223	239	0	352	0	25	0	5,037	1,988
U. Nebraska, Medical Center	97	10,072	0	0	10,072	0	0	0	0	0	0	0
U. Kentucky	99	9,985	134	341	8,546	10	146	0	0	0	799	9
U. Colorado Boulder	100	9,942	186	341	892	0	1,957	0	68	2	6,052	444
Oklahoma State U., Stillwater	101	9,807	59	34	7,222	0	45	18	689	0	1,740	0
U. Tulsa	102	9,732	0	37	0	0	0	66	0	0	9,629	0
U. Georgia	103	9,490	17	186	8,014	5	81	141	240	0	707	99
Northeastern U.	104	9,060	612	93	2,800	0	757	146	204	0	4,273	175
Rice U.	105	8,851	274	2	95	988	2,847	43	69	0	4,533	0
U. California, Santa Cruz	106	8,701	724	678	1,230	2	560	6	545	10	4,882	64
U. New Hampshire	107	8,430	0	823	581	0	108	0	998	0	5,919	1
U. Texas Health Science Center, San Antonio	108	8,048	0	0	8,048	0	0	0	0	0	0	0
U. Houston	109	8,034	108	1,650	643	0	40	179	47	10	2,539	2,818
George Mason U.	110	7,972	202	165	964	177	35	173	2,369	0	474	3,413
Utah State U.	111	7,961	8	0	683	0	584	29	25	0	6,632	0
U. Massachusetts, Amherst	112	7,702	1,709	98	1,077	2	167	226	109	65	4,030	219
U. Tennessee, Knoxville[c]	113	7,580	109	10	2,336	0	157	0	17	45	4,905	1
Oregon State U.	114	7,387	115	55	3,054	0	21	51	42	56	3,993	0
Southern Illinois U., Carbondale	115	6,777	70	6	5,438	0	19	19	1	70	1,154	0
U. Delaware	116	6,740	17	913	909	12	985	0	76	217	3,611	0
Auburn U., Auburn	117	6,700	4	9	3,037	0	196	0	0	1	3,098	355
Michigan Technological U.	118	6,661	67	1,236	291	0	179	0	0	0	4,888	0
U. Arkansas, Fayetteville	119	6,648	56	191	3,715	0	1	47	31	10	2,217	380
Kansas State U.	120	6,594	8	0	5,682	0	27	2	4	9	860	2
U. Texas, Dallas	121	6,496	891	109	50	53	272	0	0	0	5,081	40
U. California, Riverside	122	6,288	532	195	2,054	53	322	0	228	4	2,900	0
U. Notre Dame	123	6,212	514	0	214	9	242	0	19	84	5,130	0
West Virginia U.	124	6,077	26	94	3,377	0	11	0	13	0	2,556	0
U. Texas, Arlington	125	5,989	332	9	575	28	446	56	0	0	3,667	876
U. Texas Medical Branch	126	5,832	0	0	5,832	0	0	0	0	0	0	0
U. Texas, San Antonio	127	5,703	459	39	734	133	899	2	552	0	735	2,150

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wayne State U.	127	5,703	111	0	3,844	0	612	1	66	144	719	206
Tulane U.	129	5,589	0	106	5,239	0	144	0	0	0	100	0
Mercer U.	130	5,452	0	0	784	0	0	0	2	0	4,651	15
U. Dayton	131	5,439	781	0	0	0	1	0	0	0	4,657	0
SUNY, Stony Brook U.	132	5,307	265	32	3,025	25	392	0	0	506	1,062	0
Case Western Reserve U.	133	5,185	0	0	3,375	0	181	0	0	0	1,567	62
Rockefeller U.	134	5,110	0	0	5,110	0	0	0	0	0	0	0
Missouri U. of Science and Technology	135	4,604	7	0	0	0	124	0	0	0	4,471	2
George Washington U.	136	4,596	34	0	3,266	0	0	0	199	0	375	722
U. Wyoming	137	4,519	40	1,072	732	11	15	0	10	15	2,620	4
Syracuse U.	138	4,516	36	36	0	0	113	1	14	0	189	4,127
U. Southern Mississippi	139	4,399	0	2,367	769	0	1,239	0	8	0	0	16
Saint Louis U.	140	4,362	10	0	4,217	0	0	0	0	0	31	104
Dartmouth C. and Dartmouth Hitchcock Medical Center	141	4,359	132	0	3,323	0	122	5	20	15	742	0
Ohio U.	142	4,349	324	90	167	0	40	1	21	0	3,666	40
Albert Einstein C. of Medicine	143	4,286	0	0	4,286	0	0	0	0	0	0	0
Georgia Southern U.	144	4,075	0	3	5	0	3,825	0	0	0	233	9
U. Toledo	144	4,075	0	0	2,813	0	136	94	0	0	694	338
U. South Carolina, Columbia	146	4,050	0	0	752	0	44	0	62	0	3,130	62
New York Medical C.	147	4,039	0	0	4,039	0	0	0	0	0	0	0
Worcester Polytechnic Institute	148	4,003	745	0	85	0	25	0	0	0	3,148	0
Albany Medical C.	149	3,954	0	0	3,954	0	0	0	0	0	0	0
U. Akron	150	3,898	0	10	181	0	1,049	1	0	0	2,549	108
U. Nevada, Reno	151	3,807	173	68	2,693	0	90	38	0	0	745	0
U. New Mexico	152	3,733	0	0	3,100	0	0	6	30	0	597	0
Brown U.	153	3,634	307	0	1,670	0	159	0	38	0	1,339	121
U. Vermont	154	3,617	33	0	3,221	3	0	0	0	0	360	0
SUNY, Binghamton U.	155	3,588	118	0	278	0	358	12	381	0	2,437	4
U. Puerto Rico, Medical Sciences Campus	156	3,551	0	0	3,551	0	0	0	0	0	0	0
Mississippi State U.	157	3,477	2	447	1,691	0	479	0	2	0	856	0
Loyola U., Chicago	158	3,384	0	0	3,384	0	0	0	0	0	0	0
East Carolina U.	159	3,363	0	41	3,114	0	111	42	0	0	44	11

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Tennessee, Health Science Center	160	3,353	0	0	3,353	0	0	0	0	0	0	0
Brigham Young U., Provo	161	3,273	40	149	371	0	921	23	0	0	1,769	0
U. Massachusetts, Lowell	162	3,263	82	21	498	0	377	0	0	0	2,268	17
Drexel U.	163	3,203	7	0	1,429	0	0	0	0	0	1,760	7
Embry-Riddle Aeronautical U.	164	3,151	0	165	0	0	122	0	278	0	2,500	86
Augusta U.	165	3,018	0	0	3,012	0	6	0	0	0	0	0
New Jersey Institute of Technology	166	3,013	224	0	1,746	0	20	0	168	0	855	0
U. Maine	167	3,005	0	252	795	0	6	10	50	0	1,882	10
U. Rhode Island	168	2,892	0	439	600	0	449	370	144	95	709	86
U. Alaska, Fairbanks	169	2,774	39	1,272	727	0	9	0	16	64	647	0
Florida Atlantic U.	170	2,729	133	7	2,198	36	35	40	0	0	280	0
Howard U.	171	2,721	18	0	1,317	0	0	300	246	0	655	185
U. Hawaii, Manoa	172	2,623	23	832	330	0	29	0	785	228	396	0
U. Idaho	173	2,581	298	72	867	0	42	71	0	0	1,049	182
Milwaukee School of Engineering	174	2,575	0	0	0	0	85	0	0	0	2,490	0
U. Alabama, Tuscaloosa	175	2,525	0	44	346	0	88	0	632	0	1,096	319
U. Mississippi	176	2,425	0	0	2,370	0	4	0	2	0	40	9
Montana State U., Bozeman	177	2,392	0	0	721	0	1,024	0	51	0	596	0
Rochester Institute of Technology	177	2,392	140	0	0	22	420	0	25	0	1,744	41
California State U., Maritime Academy	179	2,345	0	0	0	0	0	0	0	0	2,345	0
Florida International U.	180	2,271	25	72	673	0	95	51	25	0	1,322	8
U. Michigan, Dearborn	181	2,262	0	0	0	0	0	0	0	0	2,262	0
Southern Methodist U.	182	2,250	35	600	0	0	23	0	0	0	1,401	191
Woods Hole Oceanographic Institution	183	2,223	0	1,636	0	0	0	0	0	0	587	0
Indiana U.-Purdue U., Indianapolis	184	2,214	78	2	1,067	0	30	6	475	0	554	2
Florida State U.	185	2,177	7	326	704	0	229	1	65	38	807	0
Cleveland State U.	186	2,166	0	0	1,177	0	0	0	41	0	948	0
CUNY, John Jay C. of Criminal Justice	187	2,159	0	0	0	0	0	720	0	0	0	1,439
SUNY, Upstate Medical U.	188	2,141	0	0	2,141	0	0	0	0	0	0	0
U. North Carolina, Charlotte	189	2,133	169	55	61	0	277	6	0	0	1,507	58
Louisiana State U., Health Sciences Center, New Orleans	190	2,109	0	0	2,109	0	0	0	0	0	0	0
U. Massachusetts, Boston	191	2,075	3	0	19	0	0	204	219	0	159	1,471

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
South Dakota State U.	192	1,879	0	0	1,613	112	12	0	0	0	142	0
North Dakota State U.	193	1,865	0	0	1,140	0	166	0	5	52	502	0
Loma Linda U.	194	1,857 i	0 i	0 i	1,857 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Western Michigan U. and Homer Stryker M.D. School of Medicine	195	1,778	0	10	458	0	0	0	0	0	1,293	17
New Mexico State U.	196	1,644	91	22	732	0	175	0	0	0	624	0
U. North Texas, Denton	197	1,619	53	66	599	0	671	0	0	0	222	8
Illinois Institute of Technology	198	1,562	92	0	736	9	295	0	0	0	429	1
U. Denver	199	1,521	0	0	0	0	0	0	0	0	1,521	0
U. South Alabama	200	1,511	0	13	1,355	0	0	31	13	0	49	50
U. Wisconsin-Milwaukee	201	1,508	0	3	214	0	29	240	961	0	53	8
Texas Christian U.	202	1,493	0	0	462	0	124	0	13	0	38	856
Clarkson U.	203	1,483	19	0	134	15	157	0	10	0	1,136	12
U. North Texas, Health Science Center	204	1,463	0	0	1,463	0	0	0	0	0	0	0
Baylor U.	205	1,395	369	24	60	0	103	12	0	0	489	338
Stevens Institute of Technology	206	1,356	0	34	0	37	134	0	0	1	1,030	120
U. Massachusetts, Dartmouth	207	1,354	0	1,299	0	0	55	0	0	0	0	0
Portland State U.	208	1,321	129	0	145	184	0	0	28	0	831	4
Nova Southeastern U.	209	1,309	0	1,036	272	0	0	0	0	0	0	1
California Polytechnic State U., San Luis Obispo	210	1,280	49	0	655	0	87	0	17	0	361	111
U. Maryland, Baltimore County	211	1,271	867	84	93	0	51	11	0	0	160	5
Eastern Virginia Medical School	212	1,244	0	0	1,244	0	0	0	0	0	0	0
SUNY, C. of Optometry	213	1,233	0	0	1,233	0	0	0	0	0	0	0
Toyota Technological Institute, Chicago	214	1,230	1,230	0	0	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	215	1,222	0	0	1,222	0	0	0	0	0	0	0
Creighton U.	216	1,207	32 i	21 i	870 i	9 i	62 i	13 i	77 i	0 i	0 i	123 i
U. Texas, El Paso	217	1,162	223	260	37	0	0	0	0	0	367	275
U. Nevada, Las Vegas	218	1,149	0	28	11	0	188	0	53	0	567	302
Alaska Pacific U.	219	1,100	0	1,100	0	0	0	0	0	0	0	0
Pittsburg State U.	220	1,085	0	0	0	0	0	0	33	0	1,052	0
CUNY, City C.	221	1,068	185	0	0	0	112	0	0	0	771	0
Teachers C., Columbia U.	222	1,038	0	0	35	0	0	7	996	0	0	0
Marquette U.	223	1,027	28	0	211	19	0	17	0	0	752	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Memphis	224	998	0	0	340	0	0	9	60	0	449	140
Old Dominion U.	225	990	11	9	387	0	20	11	0	0	550	2
Southern Illinois U., Edwardsville	226	989	0	19	824	0	2	0	39	0	102	3
Oregon Institute of Technology	227	976	9 i	63 i	414 i	19 i	0 i	30 i	0 i	0 i	119 i	322 i
U. Alabama, Huntsville	228	970	4	0	87	0	52	0	0	0	788	39
U. Missouri, Kansas City	229	964	16	0	800	0	50	15	0	0	83	0
Rosalind Franklin U. of Medicine and Science	230	958	0	0	958	0	0	0	0	0	0	0
Miami U.	231	957	3	29	530	36	0	0	39	0	188	132
Florida Institute of Technology	232	922	402	33	0	0	5	60	0	0	422	0
San Jose State U.	233	914	10	146	0	0	0	0	0	0	699	59
Louisiana Tech U.	234	903	11	0	42	0	121	1	0	0	724	4
New Mexico Institute of Mining and Technology	235	881	19	26	0	3	13	0	0	0	820	0
Boston C.	236	872	0	5	62	0	437	0	300	0	0	68
U. of the Sciences Philadelphia	237	850	0	0	845	0	5	0	0	0	0	0
U. Minnesota, Duluth	238	845	0	0	632	0	197	0	0	0	16	0
Albany C. of Pharmacy and Health Sciences	239	841	0	0	841	0	0	0	0	0	0	0
San Diego State U.	240	836	14	21	283	0	1	206	0	0	294	17
Rowan U.	241	818	57	0	218	0	164	0	0	0	379	0
Montana Technological U.	242	810	0	267	102	0	0	0	0	0	441	0
West Texas A&M U.	243	805	4	0	366	0	0	0	0	0	435	0
U.S. Air Force Academy	244	802	0	0	0	0	0	0	0	0	0	802
William & Mary	245	795	59	404	117	0	49	0	55	0	0	111
Texas State U.	246	792	0	26	146	0	4	0	174	97	310	35
Rutgers, State U. New Jersey, Newark	247	778	0	0	778	0	0	0	0	0	0	0
Purdue U., Northwest	248	759	3	0	11	0	0	0	0	0	722	23
Lehigh U.	249	758	2	0	4	0	182	0	0	0	565	5
U. Colorado Colorado Springs	250	744	0	0	62	0	50	0	0	204	427	1
U. West Florida	251	741	1	31	40	3	0	0	478	0	0	188
Pennsylvania State U., Behrend	252	718	71	1	1	1	2	0	0	0	642	0
Texas A&M U.-Corpus Christi	253	716	0	305	0	0	0	0	0	0	411	0
U. Puerto Rico, Mayaguez	254	712	0	244	6	0	173	0	2	0	275	12
SUNY, U. Albany	255	705	137	403	165	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
South Dakota School of Mines and Technology	256	699	0	0	0	0	0	0	0	0	699	0
Texas A&M U.-Kingsville	257	692	0	0	504	0	0	0	0	0	188	0
SUNY, C. of Environmental Science and Forestry	258	663	0	0	570	0	0	0	0	0	48	45
Claremont Graduate U.	259	657	109	0	0	0	0	104	322	0	0	122
Western U. of Health Sciences	260	635	0	0	609	0	0	0	0	0	0	26
California State U., Long Beach	261	617	0	0	4	0	45	0	125	0	410	33
Chapman U.	262	616	0	0	492	0	0	0	0	0	58	66
Kennesaw State U.	263	606	377	0	131	0	3	15	0	0	80	0
Wright State U.	263	606	3	0	374	0	8	0	0	0	221	0
Ball State U.	265	605	575	0	13	0	0	0	0	0	0	17
Kettering U.	266	591	0	0	9	0	33	0	0	0	539	10
U. Maryland Center for Environmental Science	267	589	2	283	304	0	0	0	0	0	0	0
Kent State U.	268	576	17	20	4	0	167	142	11	20	141	54
Georgia State U.	269	575	103	9	331	0	11	62	8	0	0	51
U. North Carolina, Wilmington	270	569	0	40	211	0	22	0	34	0	226	36
U. California, Merced	271	558	0	24	148	0	30	0	0	0	356	0
U. Montana, Missoula	272	556	0	33	479	0	36	0	8	0	0	0
Florida A&M U.	273	550	0	0	521	0	0	0	0	0	29	0
U. of St. Thomas (MN)	273	550	0	0	0	2	16	0	0	0	532	0
U. New Orleans	275	549	0	0	0	0	230	8	55	0	256	0
St. Cloud State U.	276	536	11	2	108	0	1	0	66	0	48	300
Northern Arizona U.	277	523	16	0	207	0	0	0	0	0	300	0
American U.	278	513	0	0	0	0	10	0	478	0	0	25
Marshall U.	279	489	0	0	453	0	5	0	0	0	31	0
Naval Postgraduate School	280	485	139	0	0	0	89	0	0	123	134	0
Midwestern U.	281	481	0	0	481	0	0	0	0	0	0	0
California State U., Fresno	282	455	0	0	305	0	23	0	0	0	127	0
U. Texas Rio Grande Valley	282	455	0	0	342	0	0	0	0	0	104	9
U. Wisconsin-La Crosse	282	455	0	0	91	0	4	0	350	0	0	10
Pacific U.	285	447	0	0	447	0	0	0	0	0	0	0
U. Alaska, Anchorage	286	446	0	188	174	0	0	0	0	68	16	0
U. of Health Sciences and Pharmacy in St. Louis	287	431	0	0	431	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Graduate School of Public Health and Health Policy	288	416	0	0	416	0	0	0	0	0	0	0
Desert Research Institute	289	415	0	415	0	0	0	0	0	0	0	0
Catholic U. of America	290	411	0	0	115	0	14	0	2	0	134	146
Van Andel Research Institute	291	409	0	0	409	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	292	404	0	0	0	404	0	0	0	0	0	0
California State U., Stanislaus	293	399	0	0	396	0	0	0	0	0	0	3
U. New Haven	294	390	40	0	0	0	134	0	84	0	132	0
Southern U. and A&M C., Baton Rouge	295	389	13	0	0	5	60	0	311	0	0	0
Boise State U.	296	378	0	17	35	0	88	0	0	0	238	0
U. Michigan, Flint	297	366	0	0	4	0	0	0	0	0	362	0
Babson C.	298	358	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	358 i
Texas Tech U., Health Sciences Center	299	357	0	0	338	0	0	0	0	0	0	19
Villanova U.	300	350	1	0	0	0	0	0	0	0	349	0
Marshall B. Ketchum U.	301	349 i	0 i	0 i	349 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Middle Tennessee State U.	302	345	4	9	320	4	0	0	7	0	0	1
California State Polytechnic U., Pomona	303	344	46	0	204	0	0	0	0	0	94	0
U. North Carolina, Greensboro	303	344	0	0	108	0	206	0	30	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	305	340	0	0	340	0	0	0	0	0	0	0
East Tennessee State U.	306	334	0	0	333	0	1	0	0	0	0	0
Tarleton State U.	306	334	0	0	10	324	0	0	0	0	0	0
Liberty U.	308	316	0	0	16	0	0	0	0	0	300	0
Alfred U.	309	314	0	0	0	0	0	0	0	0	314	0
Oakland U.	310	313	124	0	37	0	39	0	7	0	101	5
SUNY, Downstate Medical Center	311	305	0	0	305	0	0	0	0	0	0	0
Occidental C.	312	303	0	303	0	0	0	0	0	0	0	0
Bradley U.	313	301	0	0	10	0	56	0	0	0	235	0
Tennessee Technological U.	314	299	0	0	18	0	0	1	40	0	240	0
Brandeis U.	315	294	12	0	11	0	77	0	194	0	0	0
Santa Clara U.	316	283	78	0	0	0	15	0	0	0	190	0
Lamar U.	317	281	0	0	0	0	0	0	0	0	191	90
Duquesne U.	318	267	0	0	197	0	13	0	0	0	0	57
Texas Tech U., Health Sciences Center, El Paso	319	257	0	0	257	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Platteville	320	256 i	3 i	15 i	91 i	4 i	21 i	7 i	15 i	0 i	27 i	73 i
U. Texas Health Science Center, Tyler	321	252	0	0	252	0	0	0	0	0	0	0
Idaho State U.	322	247	0	9	128	0	6	0	0	0	104	0
U. Massachusetts, central office	323	242	0	0	0	0	0	0	170	0	0	72
Long Island U.	324	234	0	0	234	0	0	0	0	0	0	0
Manhattan C.	325	232	0	0	0	0	0	0	0	0	167	65
Franklin and Marshall C.	326	231	0	33	0	0	0	0	0	0	0	198
CUNY, Hunter C.	327	229	46	0	175	0	0	2	4	0	0	2
Morgan State U.	328	226	0	33	0	0	0	0	33	0	138	22
Northern Illinois U.	329	221	0	0	0	4	11	0	0	0	206	0
Rhode Island School of Design	329	221 i	7 i	0 i	92 i	0 i	0 i	0 i	36 i	0 i	0 i	86 i
Western Illinois U.	331	217	0	0	70	0	0	0	0	0	8	139
Roseman U. of Health Sciences	332	216	0	0	216	0	0	0	0	0	0	0
U. Oregon	333	213	1	0	9	0	131	0	69	0	0	3
Humboldt State U.	334	212	12	0	4	0	0	0	19	0	177	0
Lawrence Technological U.	334	212	0	0	0	0	0	0	0	0	162	50
Prairie View A&M U.	334	212	0	0	58	0	0	0	0	0	154	0
Seton Hall U.	337	210	0	0	0	0	0	0	0	0	0	210
Fort Hays State U.	338	209	0	0	0	0	14	0	0	0	0	195
U. Texas, Tyler	339	207	0	0	29	0	0	0	0	0	178	0
Bucknell U.	340	202 i	9 i	5 i	19 i	10 i	16 i	6 i	6 i	12 i	57 i	62 i
New England C. of Optometry	341	193	0	0	193	0	0	0	0	0	0	0
Dakota State U.	342	192	174	18	0	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	343	187	0	0	88	0	0	4	0	0	95	0
U. Hawaii, Hilo	344	179	0	0	179	0	0	0	0	0	0	0
James Madison U.	345	173	0	82	0	0	8	0	2	0	0	81
Rutgers, State U. New Jersey, Camden	346	166	0	0	0	0	0	0	161	0	0	5
National U. of Natural Medicine	347	160	0	0	160	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	348	158	0	0	0	0	156	0	0	0	2	0
Wellesley C.	348	158	1	0	125	0	0	0	2	0	0	30
U. North Florida	350	153	0	0	4	0	39	0	0	0	110	0
Western Kentucky U.	350	153	0	0	0	0	0	0	0	0	153	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-River Falls	352	152	0	0	103	0	11	0	0	0	38	0
U. Tennessee, Chattanooga	353	151	0	0	30	0	0	10	8	0	103	0
Edward Via C. of Osteopathic Medicine	354	150	0	0	150	0	0	0	0	0	0	0
St. John's U., New York	355	147	0	0	147	0	0	0	0	0	0	0
New School	356	144	6	0	0	0	0	0	100	0	0	38
California State U., Sacramento	357	143	0	15	25	0	0	0	9	0	61	33
Keck Graduate Institute	358	142 i	4 i	0 i	106 i	1 i	0 i	0 i	0 i	0 i	17 i	14 i
Kentucky State U.	358	142	0	0	142	0	0	0	0	0	0	0
North Carolina Central U.	360	137	0	9	93	0	0	0	0	0	15	20
Spelman C.	360	137	0	0	0	0	0	0	0	0	0	137
U. Puerto Rico, Rio Piedras	362	136	0	1	0	22	110	0	0	2	0	1
U. Washington, Bothell	363	129	0	0	0	0	0	0	0	0	0	129
Fayetteville State U.	364	123	0	0	0	0	0	0	51	0	0	72
Saint Joseph's U.	364	123	0	0	3	0	0	117	0	0	0	3
Illinois State U.	366	122	0	0	119	0	0	0	0	0	0	3
Western Carolina U.	367	121	0	0	17	0	66	0	29	0	9	0
Air Force Institute of Technology	368	118	0	0	0	0	9	0	0	0	109	0
Alabama A&M U.	369	117	3 i	0 i	69 i	1 i	6 i	2 i	5 i	0 i	19 i	12 i
Missouri State U.	370	115	0	0	115	0	0	0	0	0	0	0
U. Oklahoma, Tulsa	370	115	0	0	52	0	0	0	0	0	63	0
Appalachian State U.	372	112	0	0	112	0	0	0	0	0	0	0
Albany State U.	373	108	0	15	93	0	0	0	0	0	0	0
Christopher Newport U.	373	108	0	0	105	0	3	0	0	0	0	0
Youngstown State U.	375	107	0	0	14	0	2	0	0	0	91	0
Florida Gulf Coast U.	376	104	0	30	0	0	0	0	0	2	72	0
Central Washington U.	377	102	53	0	0	0	0	0	49	0	0	0
U. Houston-Clear Lake	377	102	0	0	19	0	0	0	83	0	0	0
Wesleyan U.	379	97	0	20	0	4	73	0	0	0	0	0
Calvin U.	380	92 i	35 i	5 i	10 i	0 i	9 i	0 i	16 i	0 i	12 i	5 i
Oklahoma State U., Center for Health Sciences	380	92	0	0	0	0	0	14	0	0	78	0
U. Missouri, Saint Louis	382	91	0	0	0	0	12	0	0	0	0	79
Montclair State U.	383	86	0	0	86	0	0	0	0	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Lehman C.	384	82	0	0	82	0	0	0	0	0	0	0
Western Washington U.	384	82	0	2	0	0	24	44	0	0	12	0
Biola U.	386	79 i	2 i	0 i	51 i	0 i	4 i	1 i	6 i	0 i	7 i	8 i
Framingham State U.	387	78	0	0	0	0	78	0	0	0	0	0
California State U., East Bay	388	77	0	50	14	0	0	13	0	0	0	0
U. Nebraska, Omaha	389	74	39	0	0	0	0	35	0	0	0	0
North Carolina Agricultural and Technical State U.	390	73	16	0	17	0	0	0	0	0	40	0
Oberlin C.	390	73	0	0	0	0	73	0	0	0	0	0
CUNY, Brooklyn C.	392	72	7	14	18	0	33	0	0	0	0	0
U. Central Oklahoma	393	71 i	0 i	0 i	1 i	0 i	2 i	0 i	0 i	0 i	0 i	68 i
Purdue U., Fort Wayne	394	70	0	0	70	0	0	0	0	0	0	0
Smith C.	395	68	0	0	0	0	0	0	0	0	68	0
San Francisco State U.	396	67 i	3 i	12 i	17 i	3 i	8 i	4 i	9 i	2 i	3 i	6 i
Lipscomb U.	397	66 i	2 i	0 i	43 i	0 i	3 i	1 i	4 i	0 i	7 i	6 i
U. Wisconsin-Superior	397	66	0	0	60	0	0	0	0	0	0	6
Texas A&M International U.	399	63	0	0	0	0	0	0	0	0	0	63
Indiana U. Pennsylvania	400	62	0	0	7	0	0	0	34	0	0	21
Eastern Michigan U.	401	61	0	0	16	0	18	0	0	0	27	0
Southeastern Louisiana U.	401	61	0	0	0	0	42	0	7	0	0	12
Barnard C.	403	60	0	0	60	0	0	0	0	0	0	0
Texas Woman's U.	404	59	0	0	59	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	404	59	0	2	0	38	19	0	0	0	0	0
Columbus State U.	406	58	15	0	0	0	0	0	0	0	0	43
Fordham U.	406	58	44	0	7	0	0	6	0	0	0	1
Central Michigan U.	408	57	0	0	56	0	0	0	0	0	0	1
Alcorn State U.	409	56	0	0	29	0	0	0	27	0	0	0
Heidelberg U.	410	53	0	53	0	0	0	0	0	0	0	0
Southern Connecticut State U.	410	53	0	0	53	0	0	0	0	0	0	0
Touro U.	410	53	0	0	53	0	0	0	0	0	0	0
U. Central Arkansas	413	50	1	1	48	0	0	0	0	0	0	0
C. New Jersey	414	49	0	0	0	0	0	0	0	0	46	3
California State U., Fullerton	414	49	0	10	7	0	0	0	0	0	14	18

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dickinson C.	414	49	0	1	48	0	0	0	0	0	0	0
Clark Atlanta U.	417	47	10	0	0	37	0	0	0	0	0	0
Florida Polytechnic U.	418	46	0	0	0	0	0	0	0	0	46	0
Gettysburg C.	418	46	0	0	0	0	0	46	0	0	0	0
Murray State U.	418	46	0	0	45	0	1	0	0	0	0	0
Texas A&M U.-Commerce	418	46	41	0	2	0	0	0	0	0	2	1
U.S. Military Academy	422	45	0	0	0	0	0	0	0	0	45	0
Tennessee State U.	423	44	0	0	44	0	0	0	0	0	0	0
CUNY, Queens C.	424	43	12	0	26	0	5	0	0	0	0	0
U. of the Incarnate Word	425	42	0	0	42	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	426	41	1 i	1 i	24 i	0 i	2 i	0 i	2 i	0 i	8 i	3 i
U. Nebraska, Kearney	427	39	0	1	2	0	0	0	2	34	0	0
California State U., Bakersfield	428	38	0	0	0	0	0	0	0	0	38	0
California State U., Northridge	429	35	0	12	0	0	0	0	0	0	23	0
SUNY, Buffalo State	429	35	0	0	1	0	0	0	7	0	0	27
Winthrop U.	431	34	0	0	0	0	0	0	0	0	0	34
Stephen F. Austin State U.	432	32	0	0	24	0	0	8	0	0	0	0
California State U., Channel Islands	433	31	0	0	0	0	31	0	0	0	0	0
Indiana State U.	433	31	0	4	25	0	0	0	1	0	1	0
U. Arkansas, Little Rock	433	31	19	0	10	0	2	0	0	0	0	0
West Virginia State U.	433	31	0	0	22	0	9	0	0	0	0	0
Weber State U.	437	30	30	0	0	0	0	0	0	0	0	0
Kean U.	438	29	21	0	8	0	0	0	0	0	0	0
West Chester U. Pennsylvania	439	28	0	0	0	28	0	0	0	0	0	0
Bryn Mawr C.	440	27	27	0	0	0	0	0	0	0	0	0
Emerson C.	440	27	0	0	0	0	0	0	27	0	0	0
Franklin W. Olin C. of Engineering	440	27	0	0	0	0	0	0	0	0	27	0
Langston U.	440	27	0	0	27	0	0	0	0	0	0	0
CUNY, system office	444	26	26	0	0	0	0	0	0	0	0	0
Delaware State U.	444	26 i	0 i	1 i	13 i	1 i	6 i	0 i	0 i	2 i	2 i	1 i
Harvey Mudd C.	444	26	0	0	0	1	0	0	0	3	22	0
U. Illinois, Springfield	444	26	0	0	0	0	0	0	26	0	0	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New England	444	26	0	0	26	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	449	25	1	1	0	0	0	0	0	0	16	7
Sul Ross State U.	449	25	0	0	25	0	0	0	0	0	0	0
U. Guam	449	25	0	21	4	0	0	0	0	0	0	0
Grand Valley State U.	452	24	0	0	0	0	0	0	0	24	0	0
Union C., Schenectady	452	24	1	0	0	0	0	0	0	0	23	0
U. Louisiana, Monroe	454	22	0	0	9	0	0	0	0	0	0	13
Monmouth U.	455	20	0	0	20	0	0	0	0	0	0	0
SUNY, C. Brockport	455	20	0	0	1	0	0	0	19	0	0	0
Roger Williams U.	457	17	0	17	0	0	0	0	0	0	0	0
California State U., Chico	458	16	0	0	6	0	10	0	0	0	0	0
Fisk U.	458	16	16	0	0	0	0	0	0	0	0	0
Sonoma State U.	458	16	0	5	11	0	0	0	0	0	0	0
Troy U.	458	16	0	0	0	0	0	0	0	0	0	16
Northern Michigan U.	462	15	0	0	0	0	0	15	0	0	0	0
Towson U.	462	15	0	0	10	5	0	0	0	0	0	0
Eastern Washington U.	464	14	0	0	9	0	0	0	5	0	0	0
St. Edward's U.	464	14	0	0	0	0	0	0	10	0	0	4
U. Hartford	464	14	0	0	0	0	0	0	0	0	14	0
U. Detroit Mercy	467	13	0	0	9	0	0	0	0	0	4	0
U. of the Pacific	467	13	0	0	13	0	0	0	0	0	0	0
U. Puerto Rico, Cayey	467	13	0	0	0	0	0	0	13	0	0	0
Clark U.	470	12	0	0	0	0	12	0	0	0	0	0
Colgate U.	470	12	0	0	0	0	12	0	0	0	0	0
Fort Lewis C.	470	12	0	0	0	0	12	0	0	0	0	0
Salisbury U.	473	11	11	0	0	0	0	0	0	0	0	0
Davidson C.	474	10	0	0	0	10	0	0	0	0	0	0
Johnson C. Smith U.	474	10	0	0	0	0	0	0	0	0	0	10
Bowling Green State U.	476	8	0	0	0	0	8	0	0	0	0	0
California State U., Monterey Bay	476	8	1	0	7	0	0	0	0	0	0	0
St. Bonaventure U.	476	8	8	0	0	0	0	0	0	0	0	0
SUNY, Oswego	476	8	0	0	0	0	5	0	0	0	3	0

TABLE 28

Higher education R&D expenditures funded by businesses, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland, Eastern Shore	476	8	0	0	5	0	0	0	0	0	3	0
U. Northern Colorado	476	8	0	0	8	0	0	0	0	0	0	0
C. Charleston	482	7	0	0	7	0	0	0	0	0	0	0
Pace U.	482	7	7	0	0	0	0	0	0	0	0	0
U. North Georgia	482	7	0	7	0	0	0	0	0	0	0	0
U. Baltimore	485	6	0	0	0	0	0	0	6	0	0	0
Northern Kentucky U.	486	5	0	0	0	0	0	0	0	0	0	5
Saginaw Valley State U.	486	5	0	0	5	0	0	0	0	0	0	0
Eastern Kentucky U.	488	4	0	0	3	0	0	0	0	0	0	1
U. Northern Iowa	488	4	0	0	0	0	4	0	0	0	0	0
Des Moines U.	490	3	0	0	0	0	0	0	0	0	0	3
Hofstra U.	490	3	3	0	0	0	0	0	0	0	0	0
Loyola Marymount U.	490	3	0	0	3	0	0	0	0	0	0	0
Meharry Medical C.	490	3	0	0	3	0	0	0	0	0	0	0
Sam Houston State U.	490	3	0	0	3	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	490	3	0	0	3	0	0	0	0	0	0	0
Azusa Pacific U.	496	2	0	0	0	0	2	0	0	0	0	0
CUNY, C. Staten Island	496	2	0	0	0	0	0	0	0	0	2	0
Trinity C., Hartford	496	2	0	0	0	0	2	0	0	0	0	0
U. North Carolina, Asheville	496	2	0	0	0	0	2	0	0	0	0	0
U. South Florida, Saint Petersburg	496	2	0	0	0	0	0	0	0	0	0	2
Austin Peay State U.	501	1	0	0	1	0	0	0	0	0	0	0
Bowdoin C.	501	1	0	0	0	0	1	0	0	0	0	0
Lafayette C.	501	1	0	0	0	0	1	0	0	0	0	0
Middlebury C.	501	1	0	1	0	0	0	0	0	0	0	0
Seattle U.	501	1	0	0	0	0	0	0	0	0	0	1
Wheaton C., Wheaton	501	1	0	0	1	0	0	0	0	0	0	0
William Paterson U.	501	1	1	0	0	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $5,138 thousand in business-financed R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,745,238	81,578	149,331	3,725,032	39,436	241,118	87,853	451,233	48,714	393,387	527,556
U. California, San Francisco	1	231,371	0	0	223,346	0	8,025	0	0	0	0	0
U. Washington, Seattle	2	198,220	2,149	8,825	157,999	734	3,550	175	5,703	0	8,055	11,030
U. California, Los Angeles	3	194,946	989	4,119	146,195	692	2,622	2,542	11,535	2,075	8,746	15,431
Harvard U.	4	171,566	956	4,890	81,170	712	14,950	204	37,409	450	4,228	26,597
Stanford U.	5	168,843	810	5,753	105,380	298	14,090	4,733	13,512	77	12,782	11,408
Johns Hopkins U.[a]	6	155,728	951	1,221	142,487	69	2,971	327	967	0	4,696	2,039
U. California, Berkeley	7	135,100	9,025	642	44,861	592	13,781	4,528	18,102	10,995	19,124	13,450
U. Wisconsin-Madison	8	122,835	2,391	1,939	73,519	1,104	4,834	1,557	9,681	2,917	9,517	15,376
Cornell U.	9	119,570	1,864	209	102,190	265	2,852	522	1,455	0	4,066	6,147
U. Pennsylvania	10	112,832	349	248	88,657	569	3,077	3,412	4,335	0	3,598	8,587
U. California, San Diego	11	110,299	1,442	8,280	72,484	166	16,530	778	3,074	5	6,558	982
Columbia U. in the City of New York	12	105,442	524	12,466	58,576	775	2,851	500	7,360	0	2,779	19,611
Duke U.	13	104,685	23	1,255	82,358	1,062	252	658	8,803	0	6,252	4,022
Massachusetts Institute of Technology	14	99,438	5,693	3,741	15,952	2,250	6,793	187	24,151	1,348	26,392	12,931
Baylor C. of Medicine	15	92,835	0	0	92,835	0	0	0	0	0	0	0
Washington U., Saint Louis	16	91,685	91	184	85,594	14	1,098	345	292	0	1,633	2,434
Yale U.	17	86,548	204	152	70,268	303	3,507	517	2,896	0	1,455	7,246
New York U.	18	85,710	1,738	1	55,079	1,259	1,313	2,914	4,696	0	3,465	15,245
U. North Carolina, Chapel Hill	19	76,679	1,634	244	48,340	378	1,612	4,157	12,103	0	1,378	6,833
U. Michigan, Ann Arbor	20	75,131	1,498	238	46,613	357	1,577	1,642	12,782	0	5,269	5,155
Indiana U., Bloomington	21	71,676	1,086	15	60,213	47	282	609	4,322	1,849	1,072	2,181
Emory U.	22	67,600	38	104	64,549	13	243	209	135	0	330	1,979
U. Pittsburgh, Pittsburgh	23	65,940	158	323	58,134	421	473	922	1,207	2,309	872	1,121
Pennsylvania State U., University Park and Hershey Medical Center	24	63,664	2,181	1,697	33,735	660	5,650	1,808	2,149	0	13,434	2,350
Arizona State U.	25	62,702	569	1,841	16,301	144	1,211	2,198	7,491	10,336	6,991	15,620
Rutgers, State U. New Jersey, New Brunswick	26	60,621	249	1,970	46,981	362	1,337	380	693	26	1,111	7,512
U. Maryland[b]	27	57,662	476	870	41,288	66	1,326	204	8,654	0	1,960	2,818
Princeton U.	28	55,398	1,358	865	9,139	2,412	7,464	1,685	26,844	0	2,720	2,911
U. Texas Southwestern Medical Center	29	53,780	0	0	53,780	0	0	0	0	0	0	0
Icahn School of Medicine at Mount Sinai	30	53,691	0	0	53,691	0	0	0	0	0	0	0
Texas A&M U., College Station and Health Science Center	31	53,539	748	2,351	14,625	547	6,627	162	2,904	158	23,999	1,418

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Florida	32	50,483	105	148	45,223	120	383	658	391	0	1,698	1,757
U. Southern California	33	50,026	300	772	28,844	73	350	703	9,816	0	1,161	8,007
U. Colorado Denver and Anschutz Medical Campus	34	49,479	2	31	48,338	19	16	149	1	2	240	681
Georgetown U.	35	48,919	12,676	0	11,474	1,291	17	669	13,384	0	0	9,408
Northwestern U.	36	48,087	10	157	36,656	115	2,619	66	1,627	2,964	1,256	2,617
Ohio State U.	37	48,000	290	394	35,248	162	2,133	188	1,380	1,238	2,944	4,023
U. California, Davis	38	42,970	51	1,746	31,859	443	496	710	1,959	0	3,491	2,215
U. Cincinnati	39	42,326	0	63	36,168	26	278	27	5,487	0	168	109
U. Minnesota, Twin Cities	40	42,157	192	37	33,597	670	364	1,225	1,572	532	2,197	1,771
Oregon Health and Science U.	41	41,520	0	0	39,553	0	0	53	0	0	1,850	64
U. Texas, Austin	42	40,881	867	3,861	9,480	5,057	3,672	874	3,339	215	7,245	6,271
Boston U.	43	40,325	59	299	29,837	644	548	1,354	1,431	111	2,178	3,864
Scripps Research Institute	44	39,090	0	0	39,090	0	0	0	0	0	0	0
George Mason U.	45	38,691	495	135	1,855	8	0	392	30,272	0	273	5,261
U. Virginia, Charlottesville	46	37,430	162	300	19,675	288	277	2,838	1,887	304	1,269	10,430
California Institute of Technology	47	36,500	540	8,177	10,498	184	9,399	0	0	0	2,842	4,860
Vanderbilt U. and Vanderbilt U. Medical Center	48	36,434	0	0	29,351	132	465	576	1,190	0	1,664	3,056
U. Utah	49	36,404	234	343	25,005	273	548	1,050	1,042	0	257	7,652
U. Miami	50	35,005	0	8,001	23,014	671	130	1,463	241	0	1,279	206
U. Chicago	51	34,865	214	253	16,862	414	2,615	1,409	9,023	0	499	3,576
U. Arizona	52	34,707	239	909	10,725	35	18,376	81	717	20	3,446	159
U. Illinois, Urbana-Champaign	53	34,212	775	98	17,267	736	4,081	517	551	151	5,610	4,426
Rockefeller U.	54	33,853	0	399	32,470	157	827	0	0	0	0	0
U. Alabama, Birmingham	55	33,706	0	0	32,794	3	0	171	14	0	681	43
U. Texas M. D. Anderson Cancer Center	56	31,021	0	0	29,335	145	273	292	976	0	0	0
Purdue U., West Lafayette	57	30,205	291	61	13,027	40	1,222	89	2,604	0	9,160	3,711
Rice U.	58	30,199	0	334	1,073	1,508	3,282	82	8,516	12	14,485	907
U. California, Santa Barbara	59	29,986	56	2,380	9,105	312	5,680	452	879	0	9,801	1,321
George Washington U.	60	28,958	243	42	17,948	67	0	347	6,406	0	470	3,435
Tufts U.	61	28,558	145	3	15,203	360	376	59	8,018	816	1,819	1,759
U. California, Irvine	62	28,381	958	286	16,655	1,161	2,331	1,333	1,084	146	713	3,714
Wayne State U.	63	26,350	84	0	21,499	3	402	138	125	16	1,360	2,723

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Houston	64	24,958	0	0	24,958	0	0	0	0	0	0	0
U. Illinois, Chicago	65	24,288	106	59	20,636	28	267	183	482	0	648	1,879
U. Texas Health Science Center, San Antonio	66	24,287	0	0	24,287	0	0	0	0	0	0	0
Case Western Reserve U.	67	23,274	0	0	19,169	15	82	295	341	119	3,122	131
Medical C. Wisconsin	68	22,878	0	0	22,641	0	0	0	0	0	237	0
U. Kansas	69	22,243	57	438	16,226	11	96	177	317	0	716	4,205
U. Texas, Dallas	70	21,727	401	135	5,217	46	1,599	9	739	0	9,024	4,557
Dartmouth C. and Dartmouth Hitchcock Medical Center	71	21,710	79	160	18,670	326	847	228	207	6	848	339
Tulane U.	72	20,228	6	751	16,956	24	333	2	1,637	0	245	274
U. Iowa	73	20,062	44	342	17,975	74	133	69	338	0	627	460
Colorado State U., Fort Collins	74	19,938	6	185	12,941	30	744	73	1,613	200	1,401	2,745
U. Massachusetts, Medical School	75	19,535	0	0	19,535	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	76	19,434	0	0	19,434	0	0	0	0	0	0	0
SUNY, U. Buffalo	77	19,164	130	0	7,320	4	75	27	106	0	4,518	6,984
Michigan State U.	78	18,986	13	28	6,484	1,060	307	487	4,089	1,837	743	3,938
U. Notre Dame	79	18,563	188	0	5,913	153	952	192	2,089	1,039	1,961	6,076
Temple U.	80	18,264	80	488	9,908	103	529	927	446	0	700	5,083
U. Georgia	81	17,725	3	2,127	12,057	110	87	1,237	685	37	767	615
U. Rochester	82	16,366	0	101	15,393	10	524	53	5	8	62	210
U. Nebraska, Medical Center	83	16,011	0	0	16,011	0	0	0	0	0	0	0
U. California, Santa Cruz	84	15,685	1,101	3,080	2,285	16	2,258	116	1,376	0	4,464	989
Wake Forest U.	85	15,449	2	0	13,789	0	34	522	125	0	160	817
U. Colorado Boulder	86	15,348	160	556	3,919	47	1,481	877	1,425	30	2,034	4,819
Boston C.	87	15,173	0	62	463	129	272	1,318	3,269	0	0	9,660
Georgia State U.	88	15,022	57	40	2,441	34	625	951	1,457	0	0	9,417
Virginia Commonwealth U.	89	14,977	46	0	8,128	15	364	111	125	0	5,173	1,015
Brown U.	90	14,737	323	517	4,314	483	579	253	5,262	712	547	1,747
U. South Florida, Tampa	91	14,530	58	4,813	4,795	13	140	311	1,177	0	1,575	1,648
U. Texas, San Antonio	92	14,490	327	11	1,312	0	47	0	87	419	1,272	11,015
Georgia Institute of Technology	93	14,200	536	149	1,155	756	427	53	3,061	0	7,833	230
U. Connecticut	94	12,894	14	253	8,738	47	167	1,307	661	322	786	599
U. Hawaii, Manoa	95	12,809	0	6,163	5,296	14	183	89	275	520	171	98

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U.	96	12,653	100	245	3,922	62	617	418	1,262	0	1,164	4,863
Iowa State U.	97	11,626	0	74	5,885	0	35	920	70	0	4,235	407
Medical U. South Carolina	98	11,011	0	0	11,011	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	99	10,860	0	0	10,860	0	0	0	0	0	0	0
Teachers C., Columbia U.	100	10,766	136	0	2,431	0	0	337	7,402	0	0	460
U. Kentucky	101	10,677	612	48	8,741	50	91	53	77	0	744	261
Syracuse U.	102	10,673	89	41	218	8	480	7	1,267	0	470	8,093
American U.	103	10,486	0	0	0	0	67	23	3,671	491	0	6,234
U. Houston	104	9,803	4	55	2,786	16	3,112	453	278	11	2,054	1,034
Thomas Jefferson U.	105	9,537	0	0	9,505	0	0	0	0	0	32	0
Louisiana State U., Baton Rouge	106	9,391	0	2,305	3,076	26	1,050	142	433	0	2,274	85
U. Oklahoma, Norman and Health Science Center	107	9,232	0	645	6,124	68	182	1	869	0	758	585
Carnegie Mellon U.	108	9,210	4,769	0	613	168	255	116	319	0	2,690	280
U. New Mexico	109	9,064	60	51	7,108	24	0	134	1,271	0	178	238
Mississippi State U.	110	9,055	1	44	6,113	3	3	1	795	1,518	490	87
Florida State U.	111	8,946	0	2,570	818	44	267	42	496	123	89	4,497
U. Tennessee, Health Science Center	112	8,902	0	0	8,902	0	0	0	0	0	0	0
U. Massachusetts, Amherst	113	8,880	2,225	2	1,603	171	487	168	873	83	2,236	1,032
U. Texas Medical Branch	114	8,814	0	0	8,585	0	0	0	0	0	229	0
U. Texas, Arlington	115	8,740	277	25	677	10	648	13	0	0	3,625	3,465
Brandeis U.	116	8,699	148	0	1,110	150	817	226	2,392	31	0	3,825
Northeastern U.	117	8,568	227	192	2,307	30	2,072	292	1,515	0	758	1,175
U. Vermont	118	8,565	245	0	7,964	159	33	0	130	0	34	0
U. Louisville	119	8,518	0	0	7,591	2	28	268	8	0	235	386
SUNY, Stony Brook U.	120	8,287	154	1,207	4,365	256	967	165	164	253	732	24
U. Missouri, Columbia	121	8,132	64	42	6,159	65	1	188	424	0	188	1,001
Saint Louis U.	122	7,975	296	218	5,037	12	140	64	155	0	606	1,447
Indiana U.-Purdue U., Indianapolis	123	7,950	22	68	1,657	52	22	98	5,552	0	76	403
U. California, Riverside	124	7,826	280	608	3,095	171	216	313	1,364	23	553	1,203
U. Texas Rio Grande Valley	125	7,653	0	53	6,939	66	90	1	0	0	0	504
Drexel U.	126	7,513	14	0	4,720	11	105	183	731	94	711	944
U. South Carolina, Columbia	127	7,250	88	82	4,112	23	4	1,260	553	0	224	904

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Washington State U.	128	7,101	0	62	4,762	16	305	73	369	0	806	708
Florida International U.	129	7,059	151	593	1,602	11	315	868	1,684	72	602	1,161
Kansas State U.	130	7,057	8	6	6,013	103	152	25	188	62	272	228
New School	131	7,022	0	0	50	0	0	237	1,530	0	2,902	2,303
Clemson U.	132	6,894	27	0	4,906	19	213	25	108	0	1,295	301
Woods Hole Oceanographic Institution	133	6,872	0	4,320	0	0	0	0	0	0	2,552	0
Uniformed Services U. of the Health Sciences	134	6,695	0	0	6,680	0	0	15	0	0	0	0
Virginia Polytechnic Institute and State U.	135	6,319	63	56	3,511	40	314	158	324	0	1,695	158
U. Denver	136	6,270	0	0	947	49	114	232	39	0	72	4,817
Rensselaer Polytechnic Institute	137	6,079	3,794	145	356	0	135	0	0	0	1,418	231
U. Central Florida	138	6,049	649	177	1,925	46	607	19	359	2	1,389	876
U. Tennessee, Knoxville[c]	139	6,021	76	10	2,033	31	107	131	284	277	2,210	862
West Virginia U.	140	5,948	0	71	3,191	3	46	121	69	0	2,382	65
Florida Atlantic U.	141	5,863	5	25	5,159	2	109	36	0	0	217	310
Rush U.	142	5,765	0	0	5,726	0	0	39	0	0	0	0
New Jersey Institute of Technology	143	5,719	163	0	0	124	410	0	1,730	5	2,161	1,126
U. Massachusetts, Boston	144	5,618	0	380	854	0	380	525	1,585	0	0	1,894
U. Arkansas, Fayetteville	145	5,592	3	76	578	4	82	0	129	0	2,315	2,405
U. Arkansas for Medical Sciences	146	5,537	0	0	5,537	0	0	0	0	0	0	0
U. Nebraska, Lincoln	147	5,451	52	59	3,538	6	101	358	230	0	812	295
Texas State U.	148	5,326	43	990	1,060	27	199	10	169	0	391	2,437
Chapman U.	149	5,301	0	0	1,154	0	313	46	2,507	0	0	1,281
East Carolina U.	150	5,131	0	30	4,552	0	45	118	13	0	88	285
Texas A&M U.-Kingsville	151	5,110	0	107	4,847	0	39	0	0	0	74	43
Montana State U., Bozeman	152	4,918	13	165	2,984	9	861	38	0	0	344	504
Baylor U.	153	4,866	50	89	719	0	473	1,055	934	0	125	1,421
U. Delaware	154	4,812	84	540	1,682	33	354	590	180	0	987	362
North Carolina State U.	155	4,750	127	3	2,613	319	452	5	59	75	1,054	43
William & Mary	156	4,561	99	500	295	102	452	34	2,110	0	0	969
Cleveland State U.	157	4,515	0	0	2,367	5	0	25	534	0	1,435	149
Augusta U.	158	4,211	0	0	4,136	0	23	0	52	0	0	0
U. Mississippi	159	4,104	0	22	2,728	9	211	31	711	0	18	374

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Claremont Graduate U.	160	4,046	0	0	0	0	0	545	58	0	0	3,443
U. New Hampshire	161	3,933	2	275	1,915	22	12	16	754	0	0	937
New Mexico State U.	162	3,827	0	0	192	4	3,612	0	0	0	13	6
Desert Research Institute	163	3,819	0	1,310	2,509	0	0	0	0	0	0	0
South Dakota State U.	164	3,800	13	27	3,267	6	5	24	112	0	314	32
U. Maine	165	3,685	0	930	1,544	3	3	5	625	0	464	111
U. Texas Health Science Center, Tyler	166	3,678	0	0	3,678	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	167	3,569	0	0	3,569	0	0	0	0	0	0	0
East Tennessee State U.	168	3,407	3	0	811	0	47	2,232	59	0	2	253
U. Oregon	169	3,386	0	2	1,201	29	525	470	196	0	0	963
High Tech High Graduate School of Ed.	170	3,304	0	0	0	0	0	0	0	0	0	3,304
Louisiana State U., Health Sciences Center, New Orleans	171	3,290	0	0	3,290	0	0	0	0	0	0	0
Old Dominion U.	172	3,217	89	105	620	23	184	4	59	0	1,931	202
U. Washington, Bothell	173	3,058	0	0	0	0	0	0	0	0	0	3,058
Oklahoma State U., Stillwater	174	2,990	0	0	1,388	18	108	48	27	0	1,153	248
U. Rhode Island	175	2,960	0	1,364	689	0	47	29	10	118	164	539
U. Memphis	176	2,914	3	0	228	4	27	62	1,454	234	458	444
Loyola U., Chicago	177	2,860	0	0	2,349	7	0	31	408	0	0	65
Brigham Young U., Provo	178	2,718	0	2	944	3	7	4	78	0	697	983
Van Andel Research Institute	179	2,566	0	0	2,566	0	0	0	0	0	0	0
U. Missouri, Saint Louis	180	2,526	5	0	633	0	5	0	767	0	0	1,116
Oregon State U.	181	2,499	0	127	1,087	3	0	85	329	1	867	0
Wellesley C.	182	2,497	0	7	3	15	140	0	638	0	0	1,694
U. Louisiana, Lafayette	183	2,448	0	758	1,412	10	0	58	0	0	10	200
SUNY, Upstate Medical U.	184	2,438	0	0	2,438	0	0	0	0	0	0	0
Montclair State U.	185	2,363	0	412	132	72	0	4	0	3	0	1,740
California Polytechnic State U., San Luis Obispo	186	2,267	0	0	599	0	1,173	0	29	0	412	54
Humboldt State U.	187	2,259	0	150	831	0	6	0	224	0	970	78
Marquette U.	188	2,162	15	0	856	123	76	31	51	0	910	100
U. Toledo	189	2,130	0	183	1,137	3	156	96	78	0	258	219
Texas A&M U.-Corpus Christi	190	2,079	0	1,894	98	0	77	0	3	0	0	7
U. Nevada, Reno	191	2,062	0	65	882	12	305	24	261	3	478	32

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Framingham State U.	192	2,060	0	0	2,060	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	193	2,050	0	20	693	0	94	333	417	0	0	493
San Diego State U.	194	2,043	0	0	662	0	203	408	437	0	105	228
U. Maryland, Baltimore County	195	1,947	203	194	415	29	364	81	158	2	119	382
Duquesne U.	196	1,873	0	30	618	1	1	225	5	0	0	993
U. California, Merced	197	1,870	0	22	254	2	0	0	393	118	895	186
Colorado School of Mines	198	1,822	0	284	0	0	0	0	84	0	1,396	58
New York Medical C.	199	1,812	0	0	1,812	0	0	0	0	0	0	0
U. North Texas, Health Science Center	200	1,800	0	0	1,737	0	0	0	63	0	0	0
U. Alaska, Fairbanks	201	1,779	2	595	306	0	679	0	14	70	107	6
Kent State U.	202	1,752	3	105	467	29	299	72	410	6	66	295
SUNY, U. Albany	203	1,744	1	137	1,195	23	47	0	191	0	0	150
U. Montana, Missoula	204	1,685	0	2	1,674	0	0	0	4	0	0	5
Portland State U.	205	1,637	0	0	93	0	153	22	447	0	150	772
Auburn U., Auburn	206	1,632	2	80	1,098	4	12	2	2	0	401	31
U. Texas, El Paso	207	1,622	0	33	403	3	244	415	49	0	83	392
U. North Carolina, Asheville	208	1,598	0	40	538	0	68	0	0	0	0	952
U. Maryland Center for Environmental Science	209	1,563	0	799	711	0	53	0	0	0	0	0
Southern Methodist U.	210	1,562	62	0	34	5	173	26	26	0	70	1,166
U. North Texas, Denton	211	1,550	139	0	226	32	240	166	35	0	20	692
Morehouse School of Medicine	212	1,536	0	0	1,536	0	0	0	0	0	0	0
Loma Linda U.	213	1,526 i	0 i	0 i	1,526 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Rowan U.	214	1,511	141	138	383	0	52	47	39	0	502	209
Worcester Polytechnic Institute	215	1,484	530	0	85	10	38	0	2	0	768	51
Clark U.	216	1,456	0	1,201	0	0	22	2	127	0	0	104
Ohio U.	217	1,452	0	0	1,218	2	67	0	9	0	36	120
CUNY, John Jay C. of Criminal Justice	218	1,449	0	0	8	0	0	481	153	0	0	807
Marshall U.	219	1,441	0	0	1,280	0	21	0	0	0	45	95
U. Southern Mississippi	220	1,417	0	873	9	0	172	0	46	0	216	101
U. Wyoming	221	1,394	0	79	1,249	3	0	0	18	1	0	44
Northeast Ohio Medical U.	222	1,368	0	0	1,365	0	0	0	2	0	0	1
Northern Arizona U.	223	1,358	19	0	989	0	98	5	11	3	64	169

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U., Health Sciences Center	224	1,350	0	0	1,279	0	0	0	0	0	0	71
San Jose State U.	225	1,345	0	1,111	5	0	47	0	0	0	178	4
Eastern Virginia Medical School	226	1,331	0	0	1,331	0	0	0	0	0	0	0
U. Massachusetts, Lowell	227	1,300	195	0	478	21	77	0	30	0	291	208
SUNY, Binghamton U.	228	1,258	0	48	242	5	144	24	36	0	752	7
San Francisco State U.	229	1,200 i	52 i	212 i	293 i	53 i	139 i	76 i	175 i	8 i	67 i	125 i
North Carolina Central U.	230	1,194	0	0	202	0	134	0	214	0	180	464
Rochester Institute of Technology	231	1,192	262	0	226	31	314	7	0	0	225	127
U. New Haven	232	1,170	0	0	23	0	0	0	1,027	0	50	70
U. Wisconsin-Milwaukee	233	1,149	0	55	216	27	297	99	94	0	152	209
U. New Orleans	234	1,141	0	242	3	0	1	1	808	0	3	83
Hope C.	235	1,119	20	9	259	0	251	183	341	0	25	31
Fordham U.	236	1,118	77	0	271	0	12	89	13	0	0	656
Western Washington U.	237	1,087	0	66	127	0	102	718	12	0	36	26
North Dakota State U.	238	1,074	0	36	477	9	0	144	233	0	161	14
U. Alabama, Tuscaloosa	239	1,071	0	30	85	7	70	72	63	0	619	125
Villanova U.	240	1,056	0	0	151	0	38	7	310	0	216	334
U. Akron	241	1,054	0	0	158	9	73	182	6	0	624	2
U. Missouri, Kansas City	241	1,054	0	0	517	6	0	84	380	0	43	24
U. North Dakota	243	1,039	0	70	169	0	0	14	0	0	784	2
CUNY, City C.	244	1,011	248	0	283	22	69	0	0	0	320	69
Albany Medical C.	245	1,003	0	0	1,003	0	0	0	0	0	0	0
California State U., Northridge	246	995	0	80	0	59	98	8	0	0	106	644
Meharry Medical C.	247	979	0	0	979	0	0	0	0	0	0	0
U. Idaho	248	971	0	0	663	1	0	14	76	0	104	113
Central Michigan U.	249	962	0	0	789	3	51	62	15	0	0	42
CUNY, Graduate School of Public Health and Health Policy	250	951	0	0	951	0	0	0	0	0	0	0
Illinois Institute of Technology	251	948	0	0	267	0	0	0	0	0	671	10
U. Nebraska, Omaha	252	941	238	10	115	7	12	0	62	0	0	497
Stevens Institute of Technology	253	909	113	87	0	0	3	0	0	0	276	430
U. North Carolina, Charlotte	254	908	5	1	405	9	133	57	1	0	153	144
California State U., Fresno	255	904	0	21	694	0	1	0	11	0	83	94

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Oklahoma, Tulsa	256	891	0	0	111	0	0	0	55	0	0	725
Erikson Institute	257	890	0	0	0	0	0	0	0	0	0	890
Colorado C.	258	888	0	0	0	0	3	0	214	0	0	671
Trinity U.	259	886	0	0	12	0	257	1	352	0	41	223
Minnesota State U., Mankato	260	885	0	0	69	0	0	0	0	0	816	0
Virginia State U.	261	879	0	0	3	0	0	0	0	0	0	876
Illinois State U.	262	871	0	135	78	53	14	5	72	0	0	514
U. Baltimore	263	864	12	0	0	0	0	0	683	0	0	169
Oakland U.	264	835	21	0	342	0	168	11	1	0	288	4
CUNY, Graduate Center	265	825	0	0	0	0	158	145	267	0	0	255
Winston-Salem State U.	266	818	0	0	87	0	0	0	724	0	0	7
Creighton U.	267	817	21 i	15 i	590 i	6 i	42 i	9 i	51 i	0 i	0 i	83 i
Sul Ross State U.	268	785	0	0	608	0	0	0	177	0	0	0
Utah State U.	269	784	0	0	703	17	5	15	1	0	34	9
Middle Tennessee State U.	270	771	8	0	10	0	0	0	753	0	0	0
Bowling Green State U.	271	767	0	0	51	6	27	258	396	0	0	29
Catholic U. of America	272	760	0	0	0	0	0	0	311	0	0	449
U. Texas of the Permian Basin	273	754	0	0	0	0	2	0	0	0	118	634
Howard U.	274	743	31	0	501	18	63	21	109	0	0	0
Seton Hall U.	275	702	0	0	0	0	0	0	0	0	0	702
California State U., Long Beach	276	698	53	0	346	6	29	14	0	0	49	201
SUNY, Downstate Medical Center	277	696	0	0	696	0	0	0	0	0	0	0
Wheaton C., Wheaton	278	688	0	3	0	0	0	240	445	0	0	0
Babson C.	279	683	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	683 i
U. North Carolina, Wilmington	280	671	0	13	235	30	0	0	34	0	0	359
James Madison U.	281	669	6	0	272	0	241	47	19	0	5	79
U. South Dakota	281	669	0	0	55	0	8	4	16	0	145	441
Lawrence Technological U.	283	666	0	0	0	0	0	0	0	0	217	449
U. Nevada, Las Vegas	284	655	0	0	359	0	5	18	3	7	6	257
Wesleyan U.	285	651	0	2	37	0	37	0	105	0	0	470
CUNY, Brooklyn C.	286	645	18	307	82	1	18	11	167	0	0	41
Grand Valley State U.	287	641	0	145	282	0	0	0	180	0	0	34

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M International U.	288	637	0	0	68	0	0	24	35	0	0	510
Pepperdine U.	289	634	0	0	413	0	0	79	55	0	0	87
Texas Woman's U.	290	619	0	0	236	0	43	302	0	0	0	38
Boise State U.	291	617	0	22	227	11	6	8	140	0	177	26
Wright State U.	292	613	0	15	530	0	11	1	0	0	34	22
Nova Southeastern U.	293	610	0	255	237	0	0	55	0	0	0	63
Rosalind Franklin U. of Medicine and Science	294	609	0	0	609	0	0	0	0	0	0	0
Georgia Southern U.	295	608	0	0	267	0	9	0	3	0	3	326
Rutgers, State U. New Jersey, Camden	296	603	59	0	0	0	0	38	201	0	0	305
U. Massachusetts, central office	297	602	0	0	128	0	0	0	135	0	0	339
U. North Carolina, Greensboro	298	593	20	0	13	10	0	2	86	0	0	462
U. West Florida	298	593	0	4	69	16	5	0	36	0	64	399
Fairfield U.	300	590	0	1	41	0	22	5	5	7	111	398
SUNY, Polytechnic Institute	301	588	0	0	8	0	0	0	0	0	453	127
Missouri U. of Science and Technology	302	575	0	0	0	3	67	6	0	0	499	0
C. Charleston	303	574	0	21	201	10	2	0	25	0	0	315
Loyola Marymount U.	304	571	0	31	102	4	7	261	42	0	0	124
Santa Clara U.	305	566	0	0	65	2	27	2	27	0	365	78
Smith C.	305	566	0	15	494	6	7	0	20	0	15	9
Lewis and Clark C.	307	555	4	34	86	83	207	59	8	0	0	74
U. Dayton	307	555	295	0	40	0	0	2	0	0	196	22
U. of St. Thomas (MN)	307	555	0	7	0	0	0	194	0	0	47	307
SUNY, C. of Environmental Science and Forestry	310	552	20	0	422	0	0	0	0	0	101	9
Pacific U.	311	549	0	0	348	1	1	0	0	14	0	185
Miami U.	312	532	0	0	316	12	2	99	19	0	36	48
Kennesaw State U.	313	526	0	0	49	0	2	5	0	62	3	405
Philadelphia C. of Osteopathic Medicine	314	523	0	0	523	0	0	0	0	0	0	0
U. San Francisco	314	523	0	0	0	0	7	0	136	88	0	292
MGH Institute of Health Professions	316	515	0	0	0	0	0	0	0	0	0	515
Coastal Carolina U.	317	512	0	512	0	0	0	0	0	0	0	0
Claremont McKenna C.	318	511	0	0	4	7	0	8	439	14	0	39
U. of the Sciences Philadelphia	319	509	0	0	384	0	125	0	0	0	0	0

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Occidental C.	320	508	0	2	79	0	74	56	57	240	0	0
U. Houston-Downtown	321	507	0	0	1	0	72	0	192	0	0	242
Franklin W. Olin C. of Engineering	322	499	0	0	0	0	0	0	0	0	41	458
La Sierra U.	323	498	0	0	2	0	0	0	0	0	0	496
Clarkson U.	324	490	0	0	3	0	112	0	0	0	375	0
Niagara U.	324	490	0	0	7	0	6	0	3	18	0	456
Appalachian State U.	326	485	76	215	132	0	0	2	0	0	0	60
Pennsylvania State U., Behrend	327	475	11	138	5	5	11	11	11	0	253	30
Southern Illinois U., Carbondale	328	462	0	0	134	5	251	0	0	0	72	0
Embry-Riddle Aeronautical U.	329	460	0	2	0	0	46	0	40	0	360	12
U. North Georgia	330	458	0	71	0	1	0	10	0	0	0	376
Lamar U.	331	455	0	0	28	1	49	0	0	0	0	377
DePaul U.	332	450	0	0	58	0	29	77	0	0	0	286
U. San Diego	333	436	0	0	4	0	182	0	51	0	0	199
California State U., Sacramento	334	433	0	71	13	0	13	0	131	45	56	104
Carleton C.	335	427	0	7	0	0	85	0	4	0	0	331
U. Tulsa	335	427	158	0	68	0	0	102	2	0	97	0
Rhode Island C.	337	425	3	0	27	0	0	16	2	0	0	377
Barnard C.	338	421	81	0	26	0	38	94	107	0	0	75
Idaho State U.	339	410	0	0	373	0	16	4	1	0	7	9
Davidson C.	340	408	0	0	0	1	0	139	50	0	0	218
Hamilton C.	341	397	0	0	0	0	0	3	0	0	0	394
Florida Institute of Technology	342	390	0	0	27	5	28	4	0	0	326	0
Lehigh U.	343	378	0	0	0	21	153	0	22	0	169	13
Willamette U.	344	376	0	4	40	0	113	0	0	0	0	219
St. John's U., New York	345	374	0	0	195	2	0	20	0	0	0	157
U. Alaska, Anchorage	346	368	0	32	159	0	0	0	90	85	0	2
CUNY, Baruch C.	347	367	0	55	51	3	0	0	252	0	0	6
U.S. Naval Academy	348	360	101	4	0	194	24	0	0	0	37	0
Eastern Michigan U.	349	350	0	0	81	0	0	44	149	0	0	76
U. Northern Colorado	350	348	0	0	271	6	31	5	9	0	0	26
Mount Holyoke C.	351	347	0	0	9	0	22	127	95	0	0	94

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida Gulf Coast U.	352	346	0	81	57	83	0	0	40	0	39	46
U. Wisconsin-Stevens Point	353	341	0	0	319	0	10	0	4	0	8	0
Indiana U. Pennsylvania	354	339	0	0	193	0	0	0	1	0	0	145
St. Cloud State U.	355	337	0	0	26	0	0	0	20	0	0	291
Bucknell U.	356	335 i	15 i	6 i	32 i	17 i	25 i	10 i	11 i	20 i	95 i	104 i
California State U., Fullerton	357	334	0	18	94	0	124	0	16	0	0	82
Seattle U.	357	334	0	0	14	13	17	0	53	0	52	185
CUNY, Hunter C.	359	331	0	0	3	7	16	14	24	0	0	267
U. Tennessee, Chattanooga	359	331	0	0	27	0	0	12	9	39	228	16
Gallaudet U.	361	326	54	0	0	0	0	0	110	0	0	162
California State U., Los Angeles	362	321	26	0	63	0	37	62	67	0	60	6
U. Arkansas, Little Rock	363	320	147	0	1	0	51	0	15	0	78	28
Texas Tech U., Health Sciences Center, El Paso	364	318	0	0	288	0	0	0	0	0	0	30
CUNY, Queens C.	365	315	0	35	28	31	0	62	158	0	0	1
U. Puerto Rico, Mayaguez	365	315	0	0	71	20	26	0	19	0	150	29
Edward Via C. of Osteopathic Medicine	367	313	0	0	313	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	368	311	28	0	10	0	19	13	0	0	0	241
Grinnell C.	369	309	0	0	0	0	0	1	12	0	0	296
Monmouth U.	369	309	0	299	10	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	371	307	0	189	15	23	0	0	36	0	44	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	371	307	0	15	52	10	20	6	1	1	51	151
Charles R. Drew U. of Medicine and Science	373	306	0	0	306	0	0	0	0	0	0	0
Reed C.	374	303	0	0	30	0	20	12	184	0	0	57
New York Institute of Technology	375	293	0	0	211	0	0	0	0	0	71	11
Northern Kentucky U.	376	286	0	0	177	0	60	0	0	0	0	49
Oregon Institute of Technology	377	285	2 i	19 i	122 i	6 i	0 i	9 i	0 i	0 i	34 i	93 i
U. Alabama, Huntsville	378	282	21	72	90	0	97	0	0	0	2	0
C. New Jersey	379	279	0	0	223	0	9	0	37	0	10	0
Bryn Mawr C.	380	275	0	0	8	3	4	0	84	0	0	176
Ball State U.	381	271	0	3	176	0	14	0	7	0	0	71
U. of the Incarnate Word	382	268	0	0	218	0	50	0	0	0	0	0
Morgan State U.	383	267	0	0	0	29	0	0	0	0	238	0

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern Illinois U.	384	254	0	0	33	27	75	16	57	0	44	2
California State U., Monterey Bay	385	252	0	8	225	19	0	0	0	0	0	0
Suffolk U.	385	252	0	0	0	0	3	0	0	0	0	249
Des Moines U.	387	246	0	0	234	0	0	0	8	0	0	4
Yeshiva U.	388	239	0	0	239	0	0	0	0	0	0	0
Long Island U.	389	238	0	0	226	0	5	5	2	0	0	0
Midwestern U.	390	236	0	0	236	0	0	0	0	0	0	0
U. Wisconsin-La Crosse	391	234	0	0	2	0	0	0	232	0	0	0
Macalester C.	392	230	0	13	19	42	88	0	0	0	0	68
U. of the Pacific	393	229	0	0	228	0	0	0	0	0	0	1
U. Richmond	394	228	0	0	0	66	94	36	18	0	0	14
Gettysburg C.	395	227	0	0	206	0	5	13	0	0	0	3
Swarthmore C.	396	225	1	0	82	10	59	0	49	1	0	23
U. Michigan, Dearborn	397	224	0	0	35	5	9	72	4	0	99	0
California State U., East Bay	398	221	0	0	38	0	100	0	0	0	0	83
Michigan Technological U.	399	220	0	8	33	2	2	0	14	0	161	0
New Mexico Institute of Mining and Technology	399	220	0	220	0	0	0	0	0	0	0	0
Colgate U.	401	215	0	11	68	3	34	0	29	0	0	70
Central Washington U.	402	211	0	148	0	46	13	1	3	0	0	0
U. Hawaii, Hilo	403	209	0	0	202	7	0	0	0	0	0	0
California State Polytechnic U., Pomona	404	208	0	8	44	0	0	0	39	0	117	0
Stephen F. Austin State U.	405	206	0	0	28	0	28	0	0	0	0	150
U. Puget Sound	405	206	0	0	35	0	46	0	92	0	0	33
Texas A&M U.-Commerce	407	205	0	0	166	4	35	0	0	0	0	0
Andrews U.	408	203	0	1	0	0	5	0	150	0	0	47
Emerson C.	409	202	23	0	0	0	0	0	110	0	0	69
U. Puerto Rico, Rio Piedras	409	202	0	0	66	0	0	0	120	0	0	16
Prairie View A&M U.	411	199	0	0	0	0	0	0	0	0	29	170
CUNY, Advanced Science Research Center	412	198	0	0	31	0	162	0	0	0	5	0
Mercer U.	413	191	0	0	186	0	0	0	0	4	0	1
U.S. Military Academy	413	191	0	0	0	0	0	0	0	0	0	191
Southern Connecticut State U.	415	188	0	12	115	0	0	0	0	0	0	61

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southeastern Louisiana U.	416	187	0	0	187	0	0	0	0	0	0	0
Jackson State U.	417	183	16	0	0	7	0	0	130	0	30	0
Vassar C.	418	182	89	0	69	7	17	0	0	0	0	0
Calvin U.	419	176 i	66 i	10 i	18 i	0 i	20 i	0 i	28 i	0 i	25 i	9 i
Northwest Indian C.	420	175 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	175 i
West Chester U. Pennsylvania	420	175	0	0	0	0	57	64	13	0	0	41
U. Wisconsin-Green Bay	422	172	3 i	6 i	98 i	2 i	8 i	3 i	8 i	0 i	28 i	16 i
Southern Illinois U., Edwardsville	423	168	0	0	15	0	3	0	4	0	23	123
Texas Christian U.	424	166	0	0	58	0	79	0	19	0	0	10
Western U. of Health Sciences	425	165	0	0	111	0	0	0	0	0	0	54
Haverford C.	426	163	6 i	11 i	74 i	6 i	29 i	7 i	30 i	0 i	0 i	0
Western Carolina U.	427	161	0	0	54	5	6	0	12	0	0	84
U. South Florida, Saint Petersburg	428	160	0	0	145	0	0	0	0	0	0	15
Pomona C.	429	156	0	0	22	0	36	0	98	0	0	0
Towson U.	429	156	25	42	29	0	22	29	9	0	0	0
St. Olaf C.	431	150	0	0	1	0	10	0	104	0	0	35
California State U., Chico	432	148	0	0	120	0	0	0	2	0	26	0
Pace U.	433	147	120	0	5	0	8	3	11	0	0	0
Purdue U., Northwest	433	147	0	0	20	0	4	27	2	17	36	41
Liberty U.	435	146	0	0	146	0	0	0	0	0	0	0
Skidmore C.	436	144	0	32	0	0	18	79	15	0	0	0
Azusa Pacific U.	437	139	114	0	0	0	0	25	0	0	0	0
Albany C. of Pharmacy and Health Sciences	438	137	0	0	137	0	0	0	0	0	0	0
Williams C.	438	137 i	1 i	3 i	11 i	6 i	36 i	3 i	27 i	0 i	0 i	50 i
Eastern Washington U.	440	134	0	0	22	0	0	0	112	0	0	0
William Paterson U.	441	131	0	21	0	0	109	0	0	0	0	1
U. Southern Maine	442	130	0	0	0	0	0	0	130	0	0	0
Merrimack C.	443	125	0	0	45	0	0	0	0	0	0	80
California State U., San Marcos	444	123	0	47	60	0	0	8	0	2	0	6
Stockton U.	445	121	0	0	0	0	0	0	18	0	0	103
U. of the Virgin Islands	446	118	0	42	18	0	0	0	0	0	58	0
Bowdoin C.	447	116	0	0	0	3	0	18	70	0	0	25

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Saginaw Valley State U.	448	115	3	0	30	0	10	0	54	10	7	1
U. Colorado Colorado Springs	449	114	0	0	7	0	50	0	33	5	0	19
Tarleton State U.	450	112	0	8	66	0	13	0	0	0	0	25
U. North Florida	450	112	0	0	18	0	2	0	38	0	19	35
U. Puerto Rico, Cayey	450	112	0	0	0	0	0	53	59	0	0	0
Wichita State U.	453	110	0	0	4	0	0	12	5	0	89	0
Naval Postgraduate School	454	108	0	0	0	0	0	0	108	0	0	0
Winthrop U.	455	107	0	0	0	0	14	0	91	0	0	2
Austin Peay State U.	456	106	0	0	103	0	2	1	0	0	0	0
Toyota Technological Institute, Chicago	456	106	106	0	0	0	0	0	0	0	0	0
CUNY, system office	458	105	2	0	0	0	0	0	0	0	0	103
Bates C.	459	104	0	15	29	4	2	5	44	0	0	5
U. Washington, Tacoma	460	102	0	2	1	0	0	0	20	0	0	79
Johnson C. Smith U.	461	100	0	0	0	0	0	0	0	0	0	100
U. South Alabama	461	100	0	0	99	1	0	0	0	0	0	0
U. Wisconsin-Eau Claire	463	99	0	0	7	0	38	31	23	0	0	0
Christopher Newport U.	464	98	0	0	26	0	66	0	0	0	0	6
Dillard U.	464	98	0	0	98	0	0	0	0	0	0	0
Biola U.	466	97 i	2 i	0 i	64 i	1 i	6 i	1 i	5 i	0 i	11 i	7 i
U. Texas, Tyler	467	96	0	0	59	0	33	1	0	0	1	2
Harvey Mudd C.	468	93	41	0	6	4	18	0	0	16	8	0
U. New England	469	92	0	13	78	0	0	0	0	0	0	1
C. Wooster	470	90	16	0	0	0	16	0	0	0	0	58
California State U., San Bernardino	470	90	0	0	0	0	0	0	0	0	0	90
Mills C.	470	90	0	0	88	0	0	0	1	0	0	1
South Dakota School of Mines and Technology	470	90	0	0	0	0	0	0	0	0	90	0
U. Arkansas, Pine Bluff	470	90	0	0	81	0	0	0	0	0	0	9
U. of Health Sciences and Pharmacy in St. Louis	470	90	0	0	90	0	0	0	0	0	0	0
U. of Mary Washington	470	90	0	31	2	0	0	0	18	0	0	39
Roger Williams U.	477	88	0	70	0	0	0	0	0	0	0	18
Lipscomb U.	478	86 i	2 i	0 i	56 i	1 i	4 i	1 i	5 i	0 i	9 i	8 i
Hobart and William Smith Colleges	479	85	0	0	61	0	12	0	0	0	0	12

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, C. Staten Island	480	84	0	0	15	30	7	13	0	0	0	19
Saint Joseph's U.	480	84	0	0	28	0	42	7	1	0	0	6
U. Houston-Clear Lake	482	83	0	0	30	0	19	32	2	0	0	0
Western Kentucky U.	482	83	0	0	13	0	47	6	6	0	11	0
U. Minnesota, Duluth	484	81	0	0	80	0	0	0	0	0	0	1
Eastern Kentucky U.	485	77	0	0	70	0	0	0	5	0	0	2
Tennessee Technological U.	485	77	0	23	1	0	0	0	0	0	53	0
Florida A&M U.	487	75	0	22	3	0	0	0	21	0	7	22
Salisbury U.	487	75	0	0	0	0	0	1	0	0	0	74
Franklin and Marshall C.	489	73	0	8	6	0	51	0	0	0	0	8
Kentucky State U.	490	71	0	0	71	0	0	0	0	0	0	0
Sam Houston State U.	490	71	0	0	31	0	9	0	11	0	4	16
West Texas A&M U.	492	67	0	0	31	0	36	0	0	0	0	0
Clark Atlanta U.	493	65	0	0	7	0	0	0	58	0	0	0
U. Central Arkansas	493	65	0	0	12	0	0	50	0	0	0	3
Hofstra U.	495	64	0	0	8	2	0	3	8	0	10	33
Kettering U.	496	63	0	0	0	0	31	0	0	0	32	0
Fisk U.	497	62	62	0	0	0	0	0	0	0	0	0
Whitman C.	498	61	0	12	27	0	22	0	0	0	0	0
Fayetteville State U.	499	60	0	0	0	0	0	0	60	0	0	0
Union C., Schenectady	500	58	0	0	25	6	8	0	19	0	0	0
New Mexico Highlands U.	501	56	0	0	56	0	0	0	0	0	0	0
U. Illinois, Springfield	501	56	0	0	2	0	0	0	54	0	0	0
Midwestern State U.	503	55	0	15	1	0	14	0	0	0	0	25
Purdue U., Fort Wayne	504	54	0	0	45	2	0	0	0	2	3	2
Trinity C., Hartford	504	54	0	0	0	0	16	0	26	0	0	12
Lafayette C.	506	53	0	0	4	0	19	1	0	0	24	5
Xavier U. Louisiana	506	53	0	0	36	0	17	0	0	0	0	0
Providence C.	508	52	0	26	14	0	8	0	4	0	0	0
Rhode Island School of Design	509	50 i	2 i	0 i	21 i	0 i	0 i	0 i	7 i	0 i	0 i	20 i
SUNY, Buffalo State	510	49	0	24	2	0	0	0	23	0	0	0
CUNY, Medgar Evers C.	511	48	0	0	0	0	0	0	48	0	0	0

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kenyon C.	511	48	0	0	0	0	35	0	8	0	0	5
Indiana State U.	513	46	0	3	37	0	0	4	0	0	2	0
Pennsylvania State U., Harrisburg	513	46	0	1	30	0	0	0	1	0	14	0
Connecticut C.	515	44	0	0	44	0	0	0	0	0	0	0
CUNY, Lehman C.	515	44	0	0	0	12	0	1	5	0	0	26
U. South Florida, Sarasota-Manatee	515	44	0	0	0	0	0	0	0	0	0	44
Middlebury C.	518	41	0	0	0	0	41	0	0	0	0	0
Pittsburg State U.	518	41	0	0	2	0	0	0	0	0	39	0
U. Northern Iowa	520	40	0	0	4	0	36	0	0	0	0	0
Furman U.	521	38	0	0	26	0	6	0	6	0	0	0
Sonoma State U.	522	36	0	0	33	0	0	0	3	0	0	0
U. Louisiana, Monroe	522	36	0	0	35	0	0	0	1	0	0	0
Keck Graduate Institute	524	35 i	0 i	0 i	26 i	1 i	0 i	0 i	0 i	0 i	4 i	4 i
Oklahoma State U., Center for Health Sciences	524	35	0	0	0	0	0	35	0	0	0	0
Elon U.	526	34	0	0	29	0	0	0	0	0	5	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	527	33	0	0	33	0	0	0	0	0	0	0
St. Edward's U.	528	30	0	0	0	0	10	10	10	0	0	0
Weber State U.	528	30	0	0	0	0	0	0	0	0	0	30
Dickinson C.	530	29	0	5	24	0	0	0	0	0	0	0
U. Wisconsin-Platteville	530	29 i	0 i	2 i	11 i	1 i	2 i	2 i	1 i	0 i	3 i	7 i
Kean U.	532	26	2	0	24	0	0	0	0	0	0	0
Morehead State U.	532	26	0	0	25	0	0	0	0	0	0	1
U. Alaska, Southeast	534	25	0	25	0	0	0	0	0	0	0	0
U. Detroit Mercy	535	23	0	0	0	1	0	1	0	0	21	0
California State U., Bakersfield	536	22	0	19	3	0	0	0	0	0	0	0
CUNY, York C.	536	22	0	0	22	0	0	0	0	0	0	0
U. California, Office of the President	538	20	0	0	11	0	0	0	0	9	0	0
Troy U.	539	19	0	0	19	0	0	0	0	0	0	0
Tennessee State U.	540	18	0	0	18	0	0	0	0	0	0	0
Doane U.	541	17 i	1 i	0 i	9 i	0 i	6 i	0 i	0 i	0 i	0 i	1 i
U. Nebraska, Kearney	541	17	0	0	5	0	0	0	0	0	0	12

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Youngstown State U.	541	17	0	0	3	0	14	0	0	0	0	0
SUNY, Oswego	544	15	0	0	0	0	0	0	0	0	15	0
Ithaca C.	545	13	0	0	13	0	0	0	0	0	0	0
Heidelberg U.	546	12	0	12	0	0	0	0	0	0	0	0
St. Bonaventure U.	546	12	0	0	0	0	12	0	0	0	0	0
Benedict C.	548	11	0	0	0	0	0	0	0	0	11	0
Citadel Military C. South Carolina	548	11	0	0	0	0	0	0	6	0	0	5
Alaska Pacific U.	550	10	0	10	0	0	0	0	0	0	0	0
Amherst C.	550	10	0	2	3	0	5	0	0	0	0	0
Northern Michigan U.	550	10	0	0	0	0	2	8	0	0	0	0
SUNY, C. of Optometry	550	10	0	0	10	0	0	0	0	0	0	0
U. Wisconsin-Superior	550	10	0	0	10	0	0	0	0	0	0	0
Dakota State U.	555	9	0	0	0	0	0	0	9	0	0	0
Roseman U. of Health Sciences	555	9	0	0	9	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	555	9	0	9	0	0	0	0	0	0	0	0
California State U., Stanislaus	558	8	0	0	0	0	0	0	8	0	0	0
U. Michigan, Flint	558	8	0	0	8	0	0	0	0	0	0	0
Fort Hays State U.	560	7	0	0	3	0	4	0	0	0	0	0
U. South Carolina, Aiken	560	7	0	0	0	0	7	0	0	0	0	0
New England C. of Optometry	562	6	0	0	6	0	0	0	0	0	0	0
Oberlin C.	562	6	0	0	0	0	6	0	0	0	0	0
U. Minnesota, Morris	562	6	0	0	0	0	0	0	6	0	0	0
Columbus State U.	565	5	5	0	0	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	565	5	0	0	0	5	0	0	0	0	0	0
Florida Polytechnic U.	565	5	0	0	5	0	0	0	0	0	0	0
Salish Kootenai C.	565	5	0	0	0	0	0	0	0	0	0	5
SUNY, Geneseo	565	5	0	0	0	0	2	0	0	0	0	3
Hawaii Pacific U.	570	4	0	4	0	0	0	0	0	0	0	0
Missouri State U.	570	4	0	0	4	0	0	0	0	0	0	0
Texas Southern U.	570	4	0	0	4	0	0	0	0	0	0	0
Claflin U.	573	3	0	0	3	0	0	0	0	0	0	0
U. Central Oklahoma	573	3 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	3 i

TABLE 29

Higher education R&D expenditures funded by nonprofit organizations, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Alcorn State U.	575	2	0	0	0	0	0	0	2	0	0	0
Milwaukee School of Engineering	575	2	0	0	0	0	0	0	0	0	2	0
Arkansas State U., Jonesboro	577	1	0	0	1	0	0	0	0	0	0	0
Keene State C.	577	1	0	0	1	0	0	0	0	0	0	0
SUNY, C. Brockport	577	1	0	0	0	0	0	0	0	0	0	1
Touro U.	577	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with zero in nonprofit-financed R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,678,763	46,446	86,997	1,618,377	10,143	115,254	23,408	138,635	27,997	432,690	178,816
U. California, San Francisco	1	172,200	0	0	168,051	0	4,149	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	2	137,736	0	0	135,475	251	289	984	737	0	0	0
Cornell U.	3	126,960	3,310	300	101,574	9	1,677	401	1,863	0	13,776	4,050
U. California, San Diego	4	120,624	2,840	9,319	65,165	256	7,584	1,783	4,897	404	26,807	1,569
New York U.	5	116,870	1,428	245	12,932	1,071	4,788	222	9,238	0	68,434	18,512
U. Arizona	6	110,041	101	4,197	81,739	31	12,186	100	1,557	154	8,975	1,001
Massachusetts Institute of Technology	7	77,960	1,870	1,671	5,000	10	1,096	0	12,637	1,954	49,439	4,283
U. California, Los Angeles	8	76,247	2,269	3,186	47,888	1,067	6,432	642	3,143	999	9,317	1,304
U. Southern California	9	74,689	1,536	2,460	50,007	107	2,363	4,032	3,114	0	6,124	4,946
U. Virginia, Charlottesville	10	62,803	641	308	46,105	0	1,398	222	4,048	374	1,569	8,138
U. California, Berkeley	11	59,693	0	408	15,242	443	17,289	266	3,756	2,432	17,745	2,112
U. Texas Southwestern Medical Center	12	57,513	0	0	57,513	0	0	0	0	0	0	0
U. California, Davis	13	55,584	589	977	42,862	79	1,971	694	1,314	0	6,430	668
U. Pittsburgh, Pittsburgh	14	54,251	70	77	49,888	0	24	15	148	139	2,919	971
U. California, Irvine	15	47,536	3,553	841	27,322	659	2,809	3,290	2,796	118	4,184	1,964
Purdue U., West Lafayette	16	42,907	545	1,286	15,109	38	1,096	546	541	524	15,514	7,708
U. Wisconsin-Madison	17	39,689	358	1,032	21,052	81	1,430	67	758	2,071	6,244	6,596
Princeton U.	18	38,624	1,228	1,634	9,102	1,159	4,751	379	10,257	0	5,544	4,570
U. Washington, Seattle	19	38,561	2,600	1,504	27,208	72	211	709	164	0	4,868	1,225
Rutgers, State U. New Jersey, New Brunswick	20	38,259	201	1,047	33,195	508	632	0	142	1,986	442	106
U. Florida	21	33,776	820	92	26,417	17	293	96	232	0	4,075	1,734
U. Colorado Boulder	22	32,385	161	1,310	326	37	603	58	109	0	28,235	1,546
U. Kentucky	23	30,432	130	35	27,263	28	251	55	160	37	974	1,499
Ohio State U.	24	28,946	285	179	25,796	33	478	0	146	0	1,714	315
California Institute of Technology	25	28,118	927	2,807	4,689	1	5,053	0	0	0	7,421	7,220
Texas A&M U., College Station and Health Science Center	26	27,477	365	3,144	6,537	52	2,730	208	2,956	13	10,716	756
U. Minnesota, Twin Cities	27	26,140	622	196	23,570	0	356	70	355	0	857	114
Duke U.	28	25,674	90	471	22,070	220	135	372	1,134	0	911	271
Georgetown U.	29	24,957	258	0	7,629	190	97	115	6,740	415	0	9,513
Arizona State U.	30	24,863	318	1,897	968	95	236	340	8,453	5,602	2,900	4,054
Boston U.	31	22,888	0	62	22,079	0	17	0	121	0	262	347

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Harvard U.	32	19,775	185	743	4,676	26	607	200	10,818	0	671	1,849
U. California, Santa Barbara	33	19,408	311	4,522	1,734	10	1,852	83	1,110	483	7,258	2,045
U. Illinois, Urbana-Champaign	34	19,322	1,162	87	7,935	196	1,302	342	474	43	6,768	1,013
U. Notre Dame	35	17,956	459	0	2,479	272	546	123	2,329	2,904	2,212	6,632
West Virginia U.	36	17,192	3	572	11,717	0	73	10	145	0	2,804	1,868
U. North Carolina, Chapel Hill	37	16,981	480	274	14,168	61	473	135	696	0	393	301
SUNY, U. Buffalo	38	16,499	120	100	14,325	0	33	9	436	0	1,303	173
U. California, Riverside	39	16,010	993	459	9,123	13	1,486	246	300	743	2,497	150
U. Nebraska, Medical Center	40	15,968	0	0	15,968	0	0	0	0	0	0	0
U. Louisville	41	15,593	0	0	13,311	0	28	0	23	13	664	1,554
Oregon State U.	42	15,366	0	1,073	12,257	10	0	10	609	136	1,271	0
Tulane U.	43	14,643	0	0	14,492	0	0	0	76	0	0	75
Michigan State U.	44	13,761	42	76	7,567	23	142	755	1,836	78	1,691	1,551
South Dakota State U.	45	13,109	0	66	12,186	13	217	12	17	0	477	121
U. Cincinnati	46	12,510	0	55	9,605	1	317	1	112	0	673	1,746
U. Texas Health Science Center, Houston	47	12,498	0	0	12,498	0	0	0	0	0	0	0
U. California, Santa Cruz	48	11,852	513	3,144	834	0	3,502	144	451	0	2,910	354
Auburn U., Auburn	49	11,585	261	153	6,983	0	44	14	4	215	2,917	994
George Washington U.	50	11,089	0	22	7,066	0	3	1	2,547	21	538	891
U. Colorado Denver and Anschutz Medical Campus	51	10,238	0	0	10,011	0	0	0	12	0	0	215
Stanford U.	52	10,234	0	697	3,910	0	2,135	0	128	0	2,768	596
U. Texas, El Paso	53	9,959	297	367	1,798	132	310	568	859	0	2,072	3,556
U. Georgia	54	9,352	93	321	7,494	0	32	259	244	15	791	103
Thomas Jefferson U.	55	9,121	0	0	9,121	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	56	8,898	0	6,386	0	0	0	0	0	0	2,512	0
Northwestern U.	57	8,783	0	0	6,194	0	356	0	560	92	457	1,124
Van Andel Research Institute	58	8,760	0	0	8,760	0	0	0	0	0	0	0
U. Michigan, Ann Arbor	59	8,613	0	8	4,161	16	157	1	491	0	3,564	215
U. Nebraska, Lincoln	60	8,610	45	60	6,008	111	164	230	126	0	324	1,542
George Mason U.	61	8,076	40	122	256	31	49	42	6,280	0	302	954
U. Tennessee, Health Science Center	62	8,066	0	0	7,676	0	0	0	0	390	0	0
Colorado State U., Fort Collins	63	8,058	183	1,081	4,852	47	102	12	165	21	1,493	102

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Icahn School of Medicine at Mount Sinai	64	7,847	0	0	7,847	0	0	0	0	0	0	0
Florida State U.	65	7,650	2	970	754	218	433	76	961	1,145	474	2,617
Wake Forest U.	66	7,644	0	0	7,065	0	0	0	1	0	0	578
Medical U. South Carolina	67	7,560	0	0	7,560	0	0	0	0	0	0	0
Louisiana State U., Baton Rouge	68	7,548	81	255	5,735	10	168	21	25	0	537	716
U. Illinois, Chicago	69	7,547	184	0	5,299	0	331	3	198	94	930	508
Temple U.	70	7,181	192	0	6,521	0	47	0	32	0	0	389
Virginia Polytechnic Institute and State U.	71	6,977	291	160	1,341	110	26	18	71	0	4,954	6
Dartmouth C. and Dartmouth Hitchcock Medical Center	72	6,714	120	174	4,328	15	466	12	483	44	1,007	65
U. Texas, Austin	73	6,562	35	383	860	232	229	642	1,022	4	1,573	1,582
Drexel U.	74	6,439	70	0	4,001	0	24	122	190	59	1,549	424
U. Nevada, Reno	75	6,274	23	2,166	2,899	0	212	1	167	2	734	70
North Dakota State U.	76	6,085	0	2	4,833	0	88	16	669	160	297	20
U. Connecticut	77	6,057	0	0	5,474	1	141	130	56	0	123	132
U. Maryland[a]	78	6,011	5	818	1,786	0	558	35	1,658	0	1,151	0
New Mexico State U.	79	5,927	0	102	1,086	1	162	0	28	4	4,294	250
U. Vermont	80	5,910	322	6	3,685	352	16	31	209	25	29	1,235
Brown U.	81	5,861	142	323	4,648	0	44	11	294	0	281	118
Utah State U.	82	5,816	268	0	4,212	72	90	161	77	0	885	51
U. Rochester	83	5,811	119	0	3,519	0	749	0	0	650	774	0
Carnegie Mellon U.	84	5,690	2,881	0	312	267	69	113	403	204	1,439	2
Medical C. Wisconsin	85	5,643	0	0	5,538	0	0	0	0	0	105	0
U. Central Florida	86	5,553	2,529	0	622	0	239	14	299	50	1,326	474
U. Missouri, Columbia	87	5,485	63	0	3,992	0	26	0	298	50	151	905
U. Tennessee, Knoxville[b]	88	5,429	120	49	2,138	0	219	3	317	77	2,372	134
Iowa State U.	89	5,291	6	23	2,424	0	116	6	25	0	1,106	1,585
Wayne State U.	90	5,180	0	0	4,068	6	318	0	303	191	60	234
Marquette U.	91	5,163	13	0	1,092	11	198	12	57	0	1,217	2,563
U. Delaware	92	5,058	0	611	751	0	151	28	1,066	0	2,228	223
Yale U.	93	4,906	50	0	4,310	0	0	0	127	0	198	221
U. Massachusetts, Medical School	94	4,811	0	0	4,811	0	0	0	0	0	0	0
U. Arkansas for Medical Sciences	95	4,708	0	0	4,708	0	0	0	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado School of Mines	96	4,677	64	841	35	0	1,077	0	414	0	2,246	0
New Jersey Institute of Technology	97	4,639	233	0	721	9	74	0	418	31	3,065	88
Rice U.	98	4,619	5	0	29	6	294	11	1,741	0	1,394	1,139
SUNY, Polytechnic Institute	99	4,337	0	0	0	0	0	0	0	0	4,337	0
Tufts U.	100	4,336	0	54	3,615	0	0	0	516	0	130	21
U. South Carolina, Columbia	101	4,191	0	0	148	0	77	0	91	0	355	3,520
Case Western Reserve U.	102	4,139	0	0	3,651	3	0	0	65	0	404	16
U. Oklahoma, Norman and Health Science Center	103	3,908	0	1,194	657	0	49	0	21	0	894	1,093
Vanderbilt U. and Vanderbilt U. Medical Center	104	3,812	0	128	1,944	0	158	0	128	0	216	1,238
U. Utah	105	3,660	0	5	4	0	0	10	0	0	0	3,641
Washington State U.	106	3,656	0	270	1,971	0	83	165	153	0	750	264
U. Massachusetts, Amherst	107	3,551	1,296	50	314	18	251	0	24	177	463	958
Johns Hopkins U.[c]	108	3,516	247	27	1,849	43	696	0	43	0	556	55
U. South Florida, Tampa	109	3,403	20	485	2,061	0	198	0	134	12	51	442
U. Pennsylvania	110	3,303	99	12	1,970	0	67	11	643	0	186	315
U. Nevada, Las Vegas	111	3,041	45	360	89	0	197	26	113	0	429	1,782
Texas A&M U.-Corpus Christi	112	3,013	1	2,891	74	0	0	0	42	0	5	0
Teachers C., Columbia U.	113	2,947	1,039	0	85	0	0	280	1,543	0	0	0
U. Idaho	114	2,763	34	36	1,692	0	197	3	125	24	215	437
U. Houston	115	2,726	37	841	224	0	33	91	86	3	1,411	0
U. Texas, San Antonio	116	2,620	214	60	482	92	399	0	121	305	326	621
Mercer U.	117	2,592	0	0	0	0	0	0	0	0	2,592	0
Michigan Technological U.	118	2,569	17	1,070	41	28	58	24	0	0	1,331	0
U. Alaska, Fairbanks	119	2,567	39	1,870	227	0	175	0	0	234	22	0
U. South Alabama	120	2,548	0	1,673	549	0	14	154	82	0	72	4
Columbia U. in the City of New York	121	2,545	0	336	1,120	0	0	0	319	0	220	550
Emory U.	122	2,412	0	1	2,311	0	0	0	100	0	0	0
Texas Tech U., Health Sciences Center	123	2,346	0	0	2,321	0	0	0	0	0	0	25
Georgia Institute of Technology	124	2,297	189	6	20	0	19	0	58	0	2,005	0
Florida Atlantic U.	125	2,266	95	370	1,559	90	17	0	0	0	133	2
Humboldt State U.	126	2,255	31	351	1,199	0	39	0	112	0	472	51
SUNY, Stony Brook U.	127	2,236	68	212	1,156	49	105	55	62	1	510	18

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Missouri U. of Science and Technology	128	2,196	2	0	6	0	38	3	0	0	2,144	3
Wichita State U.	129	2,161	0	0	0	0	1	0	0	0	2,155	5
U. California, Merced	130	2,156	0	74	191	71	494	22	220	0	1,058	26
Ponce Health Sciences U.	131	2,118	0	0	2,118	0	0	0	0	0	0	0
SUNY, U. Albany	132	2,097	5	64	1,912	0	4	45	40	0	0	27
Williams C.	133	2,038 i	28 i	51 i	153 i	92 i	527 i	45 i	411 i	0 i	0 i	731 i
U. Chicago	134	2,034	154	0	526	0	118	0	593	0	0	643
SUNY, Upstate Medical U.	135	2,021	0	0	2,021	0	0	0	0	0	0	0
U. Texas, Arlington	136	1,903	0	59	166	0	79	0	0	0	605	994
U. Massachusetts, Lowell	137	1,898	20	0	1,070	0	9	1	45	4	749	0
Montana State U., Bozeman	138	1,875	0	138	332	0	168	0	0	40	1,172	25
U. New Mexico	139	1,813	26	19	1,209	0	31	0	93	105	169	161
U. Maine	140	1,741	0	209	459	0	337	0	7	36	632	61
San Diego State U.	141	1,707	0	189	458	0	18	365	189	12	279	197
Baylor U.	142	1,679	0	128	197	0	179	4	56	0	10	1,105
William & Mary	143	1,669	51	79	25	5	86	0	339	0	0	1,084
U.S. Military Academy	144	1,647	0	0	126	0	0	0	265	1,184	0	72
U. Missouri, Kansas City	145	1,625	0	0	1,086	0	17	44	0	0	199	279
Rutgers, State U. New Jersey, Newark	146	1,620	0	0	745	0	443	0	0	0	0	432
North Carolina Central U.	147	1,599	16	48	238	0	5	0	75	0	551	666
Kansas State U.	148	1,596	0	0	1,240	0	194	0	0	0	162	0
Washington U., Saint Louis	149	1,564	119	0	1,359	0	0	0	21	0	16	49
Albany Medical C.	150	1,544	0	0	1,544	0	0	0	0	0	0	0
Indiana U., Bloomington	151	1,526	121	1	957	0	0	21	258	0	64	104
Embry-Riddle Aeronautical U.	152	1,421	0	127	0	30	685	0	28	0	551	0
U. Hawaii, Manoa	153	1,405	79	455	202	0	329	0	42	170	122	6
U. Miami	154	1,376	18	110	981	0	192	5	0	1	57	12
U. Wisconsin-Milwaukee	155	1,354	0	319	94	0	0	0	155	0	666	120
Mississippi State U.	156	1,345	6	0	1,164	0	93	0	82	0	0	0
Louisiana Tech U.	157	1,333	1	0	93	15	17	0	12	0	591	604
New School	158	1,325	0	24	258	0	0	14	830	0	16	183
Worcester Polytechnic Institute	159	1,245	71	0	234	0	0	0	0	0	906	34

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Michigan U. and Homer Stryker M.D. School of Medicine	160	1,214	0	274	122	0	54	18	11	0	539	196
U. Alabama, Birmingham	161	1,201	0	0	1,201	0	0	0	0	0	0	0
CUNY, Graduate Center	162	1,154	0	0	12	0	37	130	610	0	0	365
Brandeis U.	163	1,128	0	0	386	0	118	0	495	0	0	129
Pennsylvania State U., University Park and Hershey Medical Center	164	1,113	57	40	520	2	45	18	297	0	133	1
U. North Carolina, Greensboro	165	1,091	0	0	711	0	18	1	90	0	0	271
Desert Research Institute	166	1,061	0	1,061	0	0	0	0	0	0	0	0
CUNY, John Jay C. of Criminal Justice	167	1,052	0	0	0	0	0	0	6	0	0	1,046
U. Oregon	168	1,049	175	7	609	0	0	0	233	0	0	25
U. New Hampshire	169	1,031	0	254	88	20	0	10	529	0	0	130
U. New Orleans	170	995	14	25	1	0	291	25	173	0	124	342
Loyola U., Chicago	171	978	0	5	924	0	1	0	1	0	0	47
Fordham U.	172	962	0	0	46	0	19	0	122	0	0	775
Creighton U.	173	958	25 i	17 i	691 i	7 i	49 i	11 i	60 i	0 i	0 i	98 i
Wellesley C.	174	943	0	0	1	0	0	0	1	0	0	941
U. Akron	175	927	0	13	32	0	426	4	50	0	316	86
Rochester Institute of Technology	176	921	178	0	22	1	289	0	15	0	250	166
Amherst C.	177	891	0	333	127	0	431	0	0	0	0	0
U. North Texas, Denton	178	824	1	10	322	12	73	1	2	0	222	181
U. Rhode Island	179	822	0	28	119	0	583	0	13	0	65	14
Boston C.	180	759	0	19	50	0	0	0	77	0	0	613
Florida Institute of Technology	181	741	132	0	0	0	0	304	0	0	305	0
SUNY, Binghamton U.	182	739	161	7	5	0	18	0	98	0	352	98
Florida International U.	183	728	3	49	129	0	34	14	144	0	343	12
North Carolina State U.	184	701	1	0	249	55	0	0	9	0	387	0
U. Denver	185	696	0	0	0	0	15	0	0	0	0	681
Georgia State U.	186	686	0	0	24	0	2	0	98	0	0	562
U. Missouri, Saint Louis	187	674	0	0	42	1	5	0	329	0	0	297
American U.	188	634	0	0	0	0	7	0	316	0	0	311
U. Kansas	189	626	0	41	330	0	32	3	1	0	140	79
New York Medical C.	190	618	0	0	618	0	0	0	0	0	0	0
Purdue U., Northwest	191	602	0	0	220	0	9	0	0	3	56	314

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Montana, Missoula	192	599	0	386	212	0	0	0	1	0	0	0
Illinois Institute of Technology	193	593	0	0	148	0	1	0	0	0	444	0
Northeastern U.	194	590	84	0	0	0	236	127	7	0	118	18
U. Maryland, Baltimore County	195	573	0	89	31	0	105	155	83	34	75	1
Louisiana State U., Health Sciences Center, New Orleans	196	562	0	0	562	0	0	0	0	0	0	0
Grinnell C.	197	545	6	0	9	4	33	1	52	0	0	440
San Jose State U.	198	543	0	312	0	0	29	0	0	5	7	190
Portland State U.	199	536	0	70	0	0	0	0	96	0	247	123
Sul Ross State U.	200	532	0	22	295	0	0	0	215	0	0	0
U. Oklahoma, Tulsa	201	528	0	0	0	0	0	0	0	0	31	497
Tuskegee U.	202	521	0	0	57	0	0	0	56	0	408	0
U. Memphis	203	520	99	0	139	27	0	19	25	0	180	31
Ohio U.	204	513	0	17	105	0	10	0	8	56	219	98
Grand Valley State U.	205	498	0	258	114	38	13	0	47	0	0	28
U. Tennessee, Chattanooga	206	475	0	0	35	0	0	131	7	100	182	20
Haverford C.	207	462	16 i	32 i	211 i	16 i	83 i	21 i	83 i	0 i	0 i	0
Oakland U.	208	461	253	0	97	0	19	0	0	0	27	65
U. Wisconsin-Oshkosh	209	441 i	8 i	15 i	252 i	4 i	21 i	7 i	20 i	0 i	72 i	42 i
Brigham Young U., Provo	210	432	0	0	103	0	80	0	19	0	214	16
Purdue U., Fort Wayne	211	430	0	0	40	30	1	0	2	31	155	171
U. Alabama, Tuscaloosa	212	428	11	0	0	0	105	20	57	0	176	59
Winston-Salem State U.	213	408	0	0	270	5	58	0	0	0	0	75
East Tennessee State U.	214	390	0	0	390	0	0	0	0	0	0	0
California State U., Chico	215	383	0	0	67	42	0	6	16	0	252	0
Naval Postgraduate School	216	381	0	0	0	333	46	0	0	0	2	0
Dillard U.	217	367	0	0	101	0	266	0	0	0	0	0
CUNY, system office	218	362	56	0	0	0	0	0	0	0	306	0
Oregon Health and Science U.	219	359	0	0	345	0	0	0	0	0	14	0
Yeshiva U.	220	345	0	0	345	0	0	0	0	0	0	0
Colby C.	221	339	0	6	49	9	24	96	143	0	0	12
CUNY, Advanced Science Research Center	222	332	0	0	94	0	238	0	0	0	0	0
SUNY, Downstate Medical Center	222	332	0	0	332	0	0	0	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Lehman C.	224	331	231	0	0	0	95	0	0	0	0	5
Central Michigan U.	225	328	1	0	204	0	12	0	1	41	7	62
Old Dominion U.	225	328	46	8	23	0	25	0	22	0	191	13
U. Texas Health Science Center, San Antonio	227	322	0	0	322	0	0	0	0	0	0	0
Oklahoma State U., Stillwater	228	313	0	0	28	0	0	0	0	0	169	116
Texas Tech U.	229	308	0	0	245	0	0	31	8	0	14	10
Calvin U.	230	306 i	115 i	18 i	33 i	0 i	35 i	0 i	49 i	0 i	42 i	14 i
South Dakota School of Mines and Technology	231	295	0	0	0	0	31	0	0	0	264	0
North Carolina Agricultural and Technical State U.	232	294	23	0	46	0	0	0	16	0	0	209
Rockefeller U.	233	293	0	0	293	0	0	0	0	0	0	0
U. North Dakota	234	292	0	0	176	0	0	0	0	0	116	0
CUNY, Hunter C.	235	291	11	32	32	0	0	30	128	0	0	58
Babson C.	236	290	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	290 i
CUNY, City C.	237	286	0	0	0	0	169	0	0	0	117	0
Boise State U.	238	266	0	82	149	0	0	0	0	0	35	0
U. Massachusetts, Dartmouth	239	264	0	158	0	0	0	4	0	0	102	0
U. Mississippi	239	264	0	0	209	0	0	1	4	0	8	42
U. Maryland Center for Environmental Science	241	259	0	117	111	0	0	0	23	0	0	8
U. Texas Rio Grande Valley	242	255	0	1	72	0	46	0	62	0	19	55
U. Wisconsin-Stevens Point	243	251	0	0	251	0	0	0	0	0	0	0
Villanova U.	244	250	0	0	249	0	0	0	0	0	0	1
Nova Southeastern U.	245	248	0	93	155	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	246	246	0	21	223	0	1	0	1	0	0	0
Clemson U.	247	236	0	0	26	0	17	0	22	0	42	129
U. Arkansas, Fayetteville	248	228	0	0	204	0	0	0	0	0	22	2
U. Baltimore	249	218	0	0	0	0	14	0	71	0	0	133
Clarkson U.	250	217	0	0	0	0	0	0	0	0	216	1
Dickinson C.	250	217	0	92	43	0	5	1	10	0	0	66
CUNY, C. Staten Island	252	215	0	0	13	124	13	0	0	0	14	51
California State U., Long Beach	253	212	0	0	0	0	0	0	6	0	78	128
Saint Louis U.	254	211	22	18	32	0	0	0	0	0	0	139
Tennessee Technological U.	255	206	2	0	0	0	0	0	0	0	204	0

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern Arizona U.	256	201	0	15	164	0	0	0	12	9	1	0
Seattle U.	257	200	20	0	42	10	63	0	0	0	65	0
Kent State U.	258	196	6	16	1	0	36	58	49	0	22	8
Cleveland State U.	259	195	0	0	61	0	5	0	7	0	120	2
U. Alaska, Anchorage	260	194	0	0	89	0	0	0	0	105	0	0
Southern Connecticut State U.	261	192	0	63	0	0	76	0	23	30	0	0
U. Massachusetts, Boston	262	191	0	25	3	0	0	4	41	0	0	118
U. San Diego	263	186	0	4	17	0	102	0	0	0	0	63
Gettysburg C.	264	176	3	9	37	0	66	13	16	0	0	32
Northern Michigan U.	264	176	0	8	75	0	0	0	0	0	0	93
Keck Graduate Institute	266	175 i	6 i	0 i	130 i	1 i	0 i	0 i	0 i	0 i	20 i	18 i
U. Wisconsin-Green Bay	267	172	4 i	6 i	99 i	1 i	9 i	3 i	6 i	0 i	28 i	16 i
St. John's U., New York	268	167	0	0	104	0	0	2	0	0	0	61
Franklin and Marshall C.	269	166	1	100	22	0	12	10	12	1	0	8
St. Bonaventure U.	270	164	0	0	0	0	0	0	0	0	0	164
U. Nebraska, Omaha	271	162	115	0	0	0	0	0	47	0	0	0
U. North Texas, Health Science Center	272	160	0	0	120	0	0	0	40	0	0	0
Stephen F. Austin State U.	273	158	0	0	154	0	0	0	0	0	0	4
Emerson C.	274	156	0	0	0	0	0	0	70	0	0	86
Minnesota State U., Mankato	275	152	0	0	39	0	0	0	0	0	71	42
West Chester U. Pennsylvania	276	148	0	0	80	0	0	0	0	0	0	68
Hobart and William Smith Colleges	277	137	0	12	53	0	24	0	18	0	0	30
Kennesaw State U.	278	136	130	0	0	0	0	0	0	0	6	0
Syracuse U.	278	136	0	0	24	0	0	0	43	0	0	69
U. Alabama, Huntsville	280	132	0	0	70	0	1	0	0	0	58	3
Citadel Military C. South Carolina	281	130	0	0	8	0	96	0	0	0	0	26
Indiana U.-Purdue U., Indianapolis	282	128	0	0	0	0	0	0	0	59	42	27
U. Wyoming	282	128	0	29	29	0	0	0	31	0	39	0
Texas A&M U.-Commerce	284	124	0	0	124	0	0	0	0	0	0	0
Harvey Mudd C.	285	123	11	0	10	16	19	0	0	0	62	5
Miami U.	286	122	0	0	19	0	0	0	0	0	83	20
Towson U.	287	120	0	0	0	0	1	73	0	0	0	46

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Christopher Newport U.	288	117	0	0	0	0	117	0	0	0	0	0
Reed C.	289	116	0	0	0	0	0	116	0	0	0	0
CUNY, Baruch C.	290	111	0	0	0	0	0	0	105	0	0	6
U. of St. Thomas (MN)	290	111	0	0	0	0	1	0	0	0	102	8
Furman U.	292	107	0	28	6	0	28	25	10	0	0	10
U. Tulsa	292	107	0	0	0	0	0	0	0	0	107	0
U. Wisconsin-Superior	294	106	0	0	106	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	295	103	0	100	0	0	0	0	3	0	0	0
Texas Christian U.	295	103	0	0	0	0	0	47	0	0	0	56
Bates C.	297	102	0	0	51	0	51	0	0	0	0	0
Loma Linda U.	298	101 i	0 i	0 i	101 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Wright State U.	299	100	0	4	14	0	0	0	0	0	78	4
U. North Carolina, Charlotte	300	87	15	0	0	0	0	0	19	0	49	4
Central Washington U.	301	82	0	50	18	0	0	0	8	0	6	0
Trinity U.	301	82	0	20	33	0	0	0	29	0	0	0
Stevens Institute of Technology	303	79	17	0	0	0	36	0	0	0	26	0
Wesleyan U.	303	79	0	0	3	0	2	0	71	0	0	3
U. Toledo	305	78	0	0	77	0	0	0	0	0	1	0
U. Minnesota, Duluth	306	76	17	0	0	0	0	0	18	0	17	24
U. Central del Caribe	307	75	0	0	75	0	0	0	0	0	0	0
U. Massachusetts, central office	307	75	0	0	0	0	0	0	55	9	0	11
U. North Carolina, Wilmington	307	75	0	7	27	0	0	0	28	0	13	0
U. Texas, Tyler	310	74	0	0	66	0	0	3	0	0	5	0
Idaho State U.	311	72	0	0	43	0	0	24	0	0	0	5
Monmouth U.	312	71	0	55	3	0	13	0	0	0	0	0
U. Dayton	313	70	0	0	0	0	0	0	0	0	70	0
U. Puerto Rico, Rio Piedras	314	69	0	0	0	0	0	0	0	0	0	69
U. Hawaii, Hilo	315	68	0	1	34	4	2	0	0	0	0	27
U. Southern Mississippi	315	68	0	0	10	0	58	0	0	0	0	0
Eastern Michigan U.	317	66	0	0	1	25	40	0	0	0	0	0
Bowling Green State U.	318	65	0	0	0	0	0	0	62	0	0	3
Western U. of Health Sciences	319	62	0	0	62	0	0	0	0	0	0	0

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Appalachian State U.	320	61	0	0	21	0	0	0	40	0	0	0
Northern Illinois U.	321	60	0	0	0	0	0	4	0	0	0	56
C. Charleston	322	58	41	0	0	0	0	0	0	0	0	17
Hamilton C.	322	58	0	0	0	0	0	0	0	0	0	58
James Madison U.	322	58	0	0	0	9	8	1	4	29	7	0
Hope C.	325	56	0	0	0	0	0	0	0	0	0	56
Franklin W. Olin C. of Engineering	326	55	0	0	0	0	0	0	0	0	55	0
Hofstra U.	327	54	0	0	0	0	0	0	54	0	0	0
U. Wisconsin-River Falls	328	52	0	0	0	0	0	0	0	0	0	52
California Polytechnic State U., San Luis Obispo	329	51	0	0	0	0	34	0	17	0	0	0
California State U., Bakersfield	329	51	0	0	0	0	0	0	0	0	51	0
Eastern Washington U.	331	50	0	0	0	0	0	47	3	0	0	0
St. Edward's U.	331	50	0	0	10	0	0	0	0	0	0	40
U. Puget Sound	331	50	0	1	4	0	8	0	31	0	0	6
Texas A&M U.-Kingsville	334	46	0	0	0	0	0	0	0	0	46	0
Lafayette C.	335	45	0	0	0	0	0	0	45	0	0	0
New Mexico Institute of Mining and Technology	336	44	0	43	0	0	0	0	0	0	1	0
Claremont Graduate U.	337	43	0	0	0	0	0	0	27	0	0	16
Lehigh U.	337	43	0	1	0	0	0	0	0	0	41	1
U. Puerto Rico, Mayaguez	337	43	0	3	0	0	0	0	0	0	40	0
California State U., Sacramento	340	42	0	0	0	0	0	0	3	7	0	32
Long Island U.	341	41	0	0	41	0	0	0	0	0	0	0
Kean U.	342	39	0	0	0	0	39	0	0	0	0	0
West Texas A&M U.	342	39	0	0	3	0	0	0	0	0	36	0
Ithaca C.	344	35	0	0	10	0	20	0	0	0	0	5
U. Guam	344	35	0	2	33	0	0	0	0	0	0	0
U. Nebraska, Kearney	346	34	0	0	0	0	0	0	34	0	0	0
Liberty U.	347	33	0	0	0	0	0	0	0	0	33	0
Biola U.	348	31 i	1 i	0 i	20 i	0 i	2 i	0 i	2 i	0 i	3 i	3 i
Union C., Schenectady	348	31	0	0	0	0	5	0	0	0	0	26
Lipscomb U.	350	29 i	1 i	0 i	20 i	0 i	2 i	0 i	1 i	0 i	3 i	2 i
U. of Mary Washington	350	29	0	0	0	0	0	0	29	0	0	0

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Clark U.	352	28	0	0	11	0	0	0	14	0	0	3
CUNY, Queens C.	352	28	0	0	24	4	0	0	0	0	0	0
Southern Illinois U., Edwardsville	352	28	0	0	0	0	0	0	0	0	28	0
Albany C. of Pharmacy and Health Sciences	355	27	0	0	27	0	0	0	0	0	0	0
Indiana U. Pennsylvania	355	27	0	0	22	0	0	0	0	0	0	5
Texas A&M International U.	355	27	0	0	0	0	0	0	0	0	0	27
U. Michigan, Dearborn	355	27	0	0	0	0	0	0	0	0	27	0
DePaul U.	359	26	0	0	0	0	0	23	0	0	0	3
Pepperdine U.	360	25	0	0	0	0	0	0	0	0	0	25
Vassar C.	360	25	0	0	0	0	0	0	25	0	0	0
Augusta U.	362	23	0	0	23	0	0	0	0	0	0	0
National U. of Natural Medicine	362	23	0	0	23	0	0	0	0	0	0	0
Bradley U.	364	22	0	0	19	0	0	0	0	0	0	3
Montclair State U.	364	22	0	0	0	0	0	0	0	0	0	22
Sam Houston State U.	364	22	0	0	0	0	19	3	0	0	0	0
SUNY, C. of Optometry	364	22	0	0	22	0	0	0	0	0	0	0
Davidson C.	368	21	0	0	0	2	0	16	0	0	0	3
U. Puerto Rico, Medical Sciences Campus	368	21	0	0	21	0	0	0	0	0	0	0
Western Illinois U.	368	21	0	0	8	1	0	8	0	0	0	4
Florida Polytechnic U.	371	20	0	0	0	0	20	0	0	0	0	0
CUNY, Brooklyn C.	372	19	0	0	0	0	0	19	0	0	0	0
Kettering U.	372	19	0	0	0	0	0	0	0	0	19	0
Gallaudet U.	374	18	3	5	0	0	0	0	0	0	0	10
Pace U.	374	18	0	0	18	0	0	0	0	0	0	0
U. Washington, Bothell	374	18	0	0	0	0	0	0	0	0	0	18
Mills C.	377	16	0	0	0	16	0	0	0	0	0	0
Saginaw Valley State U.	377	16	0	0	0	0	0	0	0	0	0	16
SUNY, Buffalo State	377	16	0	0	0	0	0	0	16	0	0	0
U. Southern Maine	377	16	0	0	16	0	0	0	0	0	0	0
San Francisco State U.	381	15 i	1 i	2 i	3 i	1 i	1 i	1 i	4 i	1 i	0 i	1 i
U. South Florida, Saint Petersburg	381	15	0	0	15	0	0	0	0	0	0	0
Austin Peay State U.	383	14	0	0	9	0	0	0	0	0	0	5

TABLE 30

Higher education R&D expenditures funded by all other sources, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hawaii Pacific U.	383	14	14	0	0	0	0	0	0	0	0	0
SUNY, Oswego	385	13	0	0	0	0	13	0	0	0	0	0
U. Iowa	385	13	0	0	13	0	0	0	0	0	0	0
Western Kentucky U.	387	12	0	3	3	0	1	0	1	0	0	4
U. Colorado Colorado Springs	388	11	0	0	0	0	0	0	0	0	0	11
Bucknell U.	389	10 i	0 i	0 i	1 i	1 i	0 i	0 i	0 i	1 i	4 i	3 i
Illinois State U.	389	10	0	0	0	0	10	0	0	0	0	0
Jackson State U.	389	10	0	0	0	0	10	0	0	0	0	0
U. Wisconsin-Platteville	392	9 i	1 i	0 i	4 i	0 i	2 i	0 i	0 i	0 i	0 i	2 i
Chapman U.	393	8	0	0	0	0	0	0	4	0	0	4
Montana Technological U.	393	8	0	0	8	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	395	7	0	0	7	0	0	0	0	0	0	0
Elizabeth City State U.	395	7	0	0	7	0	0	0	0	0	0	0
U. New Haven	395	7	0	0	0	0	0	0	0	0	0	7
U. Wisconsin-La Crosse	395	7	0	0	4	0	0	0	3	0	0	0
U. California, Office of the President	399	6	0	0	4	0	0	0	0	2	0	0
U. Michigan, Flint	399	6	0	0	6	0	0	0	0	0	0	0
U. New England	401	5	0	0	5	0	0	0	0	0	0	0
U. of the Incarnate Word	401	5	0	0	0	0	0	0	0	0	0	5
U. of the District of Columbia	403	4	0	0	0	0	0	0	0	0	0	4
Alaska Pacific U.	404	3	0	3	0	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	404	3	0	0	3	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	406	2	0	0	0	0	0	0	0	0	0	2
U. Wisconsin-Eau Claire	406	2	0	0	2	0	0	0	0	0	0	0
Western Washington U.	406	2	0	0	0	0	0	2	0	0	0	0
CUNY, Medgar Evers C.	409	1	0	0	0	0	0	0	0	0	0	1
Virginia State U.	409	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $805 thousand in R&D expenditures from all other sources in FY 2020.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 31

Higher education R&D expenditures at historically Black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
All HBCUs	-	501,742		359,379		41,711		84,299		5,203		7,939		3,211	
Howard U.	1	44,933		29,256		1,353		10,860		2,721		743		0	
Florida A&M U.	2	41,319		33,136		2,561		4,997		550		75		0	
North Carolina Agricultural and Technical State U.	3	36,151		22,338		369		12,766		73		311		294	
Morehouse School of Medicine	4	29,813		22,500		273		5,504		0		1,536		0	
Delaware State U.	5	23,876	i	12,689	i	514	i	10,647	i	26	i	0	i	0	i
Tuskegee U.	6	20,973		15,122		2,624		2,706		0		0		521	
Prairie View A&M U.	7	18,723		9,249		4,754		4,309		212		199		0	
Morgan State U.	8	17,193		14,101		2,263		336		226		267		0	
North Carolina Central U.	9	15,833		12,787		116		NA		137		1,194		1,599	
Tennessee State U.	10	15,377		8,707		467		6,141		44		18		0	
Jackson State U.	11	15,081		13,662		0		1,226		0		183		10	
Langston U.	12	14,409		9,004		4		5,374		27		0		0	
Meharry Medical C.	13	13,870		12,573		0		315		3		979		0	
Alcorn State U.	14	13,710		7,023		4,519		2,110		56		2		0	
U. of the Virgin Islands	15	13,631		11,787		1,700		26		0		118		0	
Hampton U.	16	11,402		11,278		0		124		0		0		0	
Xavier U. Louisiana	17	11,387		9,680		775		879		0		53		0	
Virginia State U.	18	10,014		5,642		1,431		2,061		0		879		1	
Alabama A&M U.	19	8,749		5,643		2,541		448		117		0		0	
U. Arkansas, Pine Bluff	20	8,540		4,393		1,748		2,309		0		90		0	
Clark Atlanta U.	21	8,452		5,324		0		3,016		47		65		0	
U. Maryland, Eastern Shore	22	8,092		8,084		0		0		8		0		0	
Kentucky State U.	23	7,963		4,456		3,294		0		142		71		0	
Norfolk State U.	24	7,153		7,148		0		5		0		0		0	
Central State U.	25	6,107		3,097		1,861		1,149		0		0		0	
Winston-Salem State U.	26	5,781		4,498		57		NA		0		818		408	
Lincoln U., Jefferson City	27	5,777		3,636		2,141		NA		0		0		0	
West Virginia State U.	28	5,775		3,993		1,592		159		31		0		0	
Fort Valley State U.	29	4,921		4,806		0		115		0		0		0	
Morehouse C.	30	4,825		4,825		0		0		0		0		0	
Texas Southern U.	31	4,782		2,941		1,048		789		0		4		0	
U. of the District of Columbia	32	4,590		2,664		0		1,922		0		0		4	
Southern U. and A&M C., Agricultural Research and Extension Center	33	4,475		2,085		2,338		52		0		0		0	
Fisk U.	34	3,904		3,811		15		0		16		62		0	
Southern U. and A&M C., Baton Rouge	35	3,849		2,996		23		441		389		0		0	
South Carolina State U.	36	3,796	i	3,796	i	NA		NA		NA		NA		NA	
Fayetteville State U.	37	2,797		1,008		421		1,185		123		60		0	
Spelman C.	38	2,750		2,136		0		477		137		0		0	
Alabama State U.	39	2,582		2,582		0		0		0		0		0	
Dillard U.	40	2,523		1,200		87		771		0		98		367	
Johnson C. Smith U.	41	2,472		2,230		132		0		10		100		0	
Grambling State U.	42	2,427		787		560		1,080		0		0		0	
Tougaloo C.	43	2,102		2,102		0		0		0		0		0	
Bowie State U.	44	1,967		1,967		0		0		0		0		0	

TABLE 31

Higher education R&D expenditures at historically Black colleges and universities, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Claflin U.	45	1,910	1,907	0	0	0	3	0
Savannah State U.	46	1,804	1,804	0	0	0	0	0
Elizabeth City State U.	47	1,473	1,455	11	NA	0	0	7
Albany State U.	48	1,060	836	116	0	108	0	0
Benedict C.	49	649	635	3	0	0	11	0

i = imputed. NA = not available; data were not provided by institution.

HBCUs = historically Black colleges and universities.

Note(s):
Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 32

Higher education R&D expenditures at historically Black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HBCUs	-	501,742	15,550	22,639	282,862	7,092	53,679	4,151	16,432	4,375	61,985	32,977
Howard U.	1	44,933	1,523	225	25,750	230	5,308	1,878	827	0	8,336	856
Florida A&M U.	2	41,319	102	5,844	21,450	0	1,410	242	21	329	4,796	7,125
North Carolina Agricultural and Technical State U.	3	36,151	1,742	31	16,663	818	1,638	30	67	0	10,393	4,769
Morehouse School of Medicine	4	29,813	0	0	29,813	0	0	0	0	0	0	0
Delaware State U.	5	23,876 i	1 i	654 i	14,314 i	865 i	4,461 i	1 i	176 i	549 i	2,332 i	523 i
Tuskegee U.	6	20,973	409	0	8,145	1,240	166	0	4,907	184	5,922	0
Prairie View A&M U.	7	18,723	292	62	8,280	145	1,353	536	213	0	5,222	2,620
Morgan State U.	8	17,193	520	3,384	5,061	134	411	83	98	0	7,228	274
North Carolina Central U.	9	15,833	28	321	7,233	0	3,027	0	415	0	2,675	2,134
Tennessee State U.	10	15,377	148	0	12,466	111	457	245	6	0	1,480	464
Jackson State U.	11	15,081	502	189	2,129	97	9,903	25	201	465	1,468	102
Langston U.	12	14,409	0	0	13,843	2	109	0	0	0	0	455
Meharry Medical C.	13	13,870	0	0	13,870	0	0	0	0	0	0	0
Alcorn State U.	14	13,710	0	0	7,918	0	0	0	5,659	0	133	0
U. of the Virgin Islands	15	13,631	148	3,639	7,103	694	908	0	228	0	902	9
Hampton U.	16	11,402	699	3,454	1,745	226	3,142	0	710	0	866	560
Xavier U. Louisiana	17	11,387	100	0	3,929	0	7,186	55	0	0	65	52
Virginia State U.	18	10,014	0	0	6,123	645	0	0	0	0	1,058	2,188
Alabama A&M U.	19	8,749	301 i	0 i	5,142 i	83 i	636 i	174 i	298 i	0 i	1,603 i	512 i
U. Arkansas, Pine Bluff	20	8,540	0	0	7,415	0	540	0	0	572	0	13
Clark Atlanta U.	21	8,452	183	0	6,017	194	1,649	0	58	0	158	193
U. Maryland, Eastern Shore	22	8,092	0	3,454	2,572	0	1,243	0	695	0	128	0
Kentucky State U.	23	7,963	32	0	7,806	125	0	0	0	0	0	0
Norfolk State U.	24	7,153	4,921	0	114	48	726	0	0	0	1,312	32
Central State U.	25	6,107	0	126	5,451	37	6	0	0	321	166	0
Winston-Salem State U.	26	5,781	443	0	2,400	5	554	252	724	0	0	1,403
Lincoln U., Jefferson City	27	5,777	0	0	5,404	150	26	0	92	105	0	0
West Virginia State U.	28	5,775	110	0	5,199	0	357	0	0	0	109	0
Fort Valley State U.	29	4,921	0	0	4,581	184	72	0	0	0	84	0
Morehouse C.	30	4,825	1,141	0	120	166	1,517	42	3	1,697	0	139

TABLE 32

Higher education R&D expenditures at historically Black colleges and universities, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Southern U.	31	4,782	159	189	2,673	204	661	0	0	0	93	803
U. of the District of Columbia	32	4,590	79	41	2,157	277	0	0	0	0	1,388	648
Southern U. and A&M C., Agricultural Research and Extension Center	33	4,475	0	0	4,475	0	0	0	0	0	0	0
Fisk U.	34	3,904	93	0	3,585	12	212	0	2	0	0	0
Southern U. and A&M C., Baton Rouge	35	3,849	202	0	338	5	735	0	528	0	1,424	617
South Carolina State U.	36	3,796 i	104 i	0 i	1,367 i	0 i	965 i	0 i	0 i	0 i	687 i	673 i
Fayetteville State U.	37	2,797	131	0	1,483	0	260	0	111	0	0	812
Spelman C.	38	2,750	34	0	624	48	713	588	129	0	0	614
Alabama State U.	39	2,582	0	0	1,989	0	60	0	0	0	533	0
Dillard U.	40	2,523	0	0	1,323	0	975	0	189	0	0	36
Johnson C. Smith U.	41	2,472	11	0	412	0	300	0	0	0	364	1,385
Grambling State U.	42	2,427	0	0	0	3	852	0	0	0	0	1,572
Tougaloo C.	43	2,102	0	0	1,741	0	361	0	0	0	0	0
Bowie State U.	44	1,967	682	0	414	0	272	0	0	0	0	599
Claflin U.	45	1,910	500	37	857	13	258	0	75	0	170	0
Savannah State U.	46	1,804	0	728	234	0	50	0	0	153	639	0
Elizabeth City State U.	47	1,473	112	176	435	287	0	0	0	0	0	463
Albany State U.	48	1,060	0	19	654	0	54	0	0	0	3	330
Benedict C.	49	649	98	66	45	44	146	0	0	0	248	2

i = imputed.

HBCUs = historically Black colleges and universities; nec = not elsewhere classified; S&E = science and engineering.

Note(s):
Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 33

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
All HHE institutions	-	6,858,645		2,892,209		752,952		2,008,461		421,291		361,463		422,269	
U. Texas M. D. Anderson Cancer Center	1	1,051,297		186,488		291,619		209,905		194,528		31,021		137,736	
U. Arizona	2	760,975		328,807		33,210		231,170		23,040		34,707		110,041	
U. California, Irvine	3	490,597		241,734		15,947		123,966		33,033		28,381		47,536	
U. Illinois, Chicago	4	412,147		223,030		6,772		135,744		14,766		24,288		7,547	
U. Texas Health Science Center, Houston	5	273,862		133,624		42,174		44,129		16,479		24,958		12,498	
U. California, Santa Barbara	6	254,434		123,198		4,335		54,929		22,578		29,986		19,408	
U. New Mexico	7	243,375		161,627		6,046		61,092		3,733		9,064		1,813	
U. Central Florida	8	239,343		114,575		14,653		86,095		12,418		6,049		5,553	
Florida International U.	9	236,842		103,366		18,582		104,836		2,271		7,059		728	
U. Texas Health Science Center, San Antonio	10	202,572		102,959		21,895		45,061		8,048		24,287		322	
U. Houston	11	200,428		71,779		33,898		74,188		8,034		9,803		2,726	
Texas Tech U.	12	199,643		31,475		29,341		114,278		11,588		12,653		308	
U. California, Riverside	13	184,894		92,503		10,827		51,440		6,288		7,826		16,010	
U. California, Santa Cruz	14	150,400		76,468		5,870		31,824		8,701		15,685		11,852	
U. Texas, San Antonio	15	138,586		34,334		16,210		65,229		5,703		14,490		2,620	
U. Texas, Arlington	16	133,793		44,950		19,309		52,902		5,989		8,740		1,903	
U. Texas, El Paso	17	108,628		39,126		20,684		36,075		1,162		1,622		9,959	
New Mexico State U.	18	107,275		60,971		21,097		13,809		1,644		3,827		5,927	
U. Nevada, Las Vegas	19	105,872		29,252		2,493		69,282		1,149		655		3,041	
San Diego State U.	20	97,710		41,117		3,073		48,934		836		2,043		1,707	
Rush U.	21	94,438		65,343		1,886		8,712		12,732		5,765		0	
U. North Texas, Denton	22	84,239		13,653		5,524		61,069		1,619		1,550		824	
Texas State U.	23	70,714		26,950		3,850		33,796		792		5,326		0	
Northern Arizona U.	24	64,456		39,387		7,342		15,645		523		1,358		201	
U. Texas Rio Grande Valley	25	56,702		13,093		7,566		27,680		455		7,653		255	
Florida Atlantic U.	26	53,845		23,695		4,581		14,711		2,729		5,863		2,266	
San Jose State U.	27	47,301		34,102		6,297		4,100		914		1,345		543	
U. California, Merced	28	45,966		20,000		5,108		16,274		558		1,870		2,156	
CUNY, City C.	29	45,632		30,106		4,193		8,968		1,068		1,011		286	
Texas Tech U., Health Sciences Center	30	44,135		13,043		18,200		8,839		357		1,350		2,346	
CUNY, Hunter C.	31	38,345		26,025		2,622		8,847		229		331		291	
U. Puerto Rico, Medical Sciences Campus	32	37,217		27,033		361		6,251		3,551		0		21	
San Francisco State U.	33	33,078	i	16,331	i	2,243	i	13,222	i	67	i	1,200	i	15	i
Texas A&M U.-Corpus Christi	34	32,284		13,349		8,436		4,691		716		2,079		3,013	
Rutgers, State U. New Jersey, Newark	35	28,006		16,196		1,460		5,902		778		2,050		1,620	
U. Puerto Rico, Mayaguez	36	26,553		15,842		681		8,960		712		315		43	
Nova Southeastern U.	37	26,035		10,452		2,652		10,764		1,309		610		248	
Loma Linda U.	38	25,077	i	17,457	i	754	i	3,382	i	1,857	i	1,526	i	101	i
California State U., Sacramento	39	24,939		5,693		13,108		5,520		143		433		42	
New Mexico Institute of Mining and Technology	40	24,591		22,922		179		345		881		220		44	
U. Puerto Rico, Rio Piedras	41	22,895		14,071		30		8,387		136		202		69	
Texas A&M U.-Kingsville	42	22,745		9,610		3,576		3,711		692		5,110		46	

TABLE 33

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
California State U., Northridge	43	21,228	17,261	1,422	1,515	35	995	0
Montclair State U.	44	17,636	3,782	724	10,659	86	2,363	22
California State U., Long Beach	45	16,684	12,014	1,908	1,235	617	698	212
CUNY, Queens C.	46	16,470	12,726	1,054	2,304	43	315	28
Humboldt State U.	47	14,236	2,399	4,147	2,964	212	2,259	2,255
CUNY, John Jay C. of Criminal Justice	48	13,939	5,297	1,014	2,968	2,159	1,449	1,052
Charles R. Drew U. of Medicine and Science	49	13,682	9,863	311	3,202	0	306	0
Ponce Health Sciences U.	50	13,566	11,228	220	NA	0	0	2,118
California State U., San Marcos	51	13,250	11,547	1,308	272	0	123	0
California State U., San Bernardino	52	10,819	5,886	2,750	2,093	0	90	0
California State U., Los Angeles	53	10,590	8,380	72	1,817	0	321	0
Texas Tech U., Health Sciences Center, El Paso	54	10,421	1,703	2,932	5,211	257	318	0
St. Edward's U.	55	9,619	7,700	900	925	14	30	50
William Paterson U.	56	9,603	1,896	0	7,575	1	131	0
California State U., East Bay	57	9,072	2,348	992	5,434	77	221	0
California State U., Fresno	58	8,856	3,117	2,431	1,949	455	904	0
California State Polytechnic U., Pomona	59	7,396	5,514	821	509	344	208	0
Azusa Pacific U.	60	7,068	128	95	6,704	2	139	0
California State U., Bakersfield	61	7,053	4,486	150	2,306	38	22	51
West Texas A&M U.	62	6,220	1,542	2,440	1,327	805	67	39
California State U., Fullerton	63	5,929	4,121	262	1,163	49	334	0
California State U., Monterey Bay	64	5,874	3,889	1,042	683	8	252	0
CUNY, Graduate Center	65	4,787	2,561	78	169	0	825	1,154
California State U., Chico	66	4,305	2,520	747	491	16	148	383
CUNY, Lehman C.	67	4,154	3,197	0	500	82	44	331
Texas Woman's U.	68	4,135	1,700	699	1,058	59	619	0
U. Central del Caribe	69	3,931	2,743	267	846	0	0	75
CUNY, C. Staten Island	70	3,682	2,295	603	483	2	84	215
Colorado State U., Pueblo	71	3,104	1,161	1,791	152	0	0	0
Texas A&M International U.	72	3,067	986	707	647	63	637	27
U. Houston-Downtown	73	2,299	1,392	120	280	0	507	0
Kean U.	74	2,201	775	447	885	29	26	39
CUNY, New York City C. of Technology	75	2,130	1,585	0	136	404	5	0
U. Texas of the Permian Basin	76	2,105	757	32	562	0	754	0
Sul Ross State U.	77	2,068	481	126	119	25	785	532
California State U., Dominguez Hills	78	2,065	1,433	32	600	0	0	0
U. Ana G. Mendez, Gurabo	79	2,049	946	0	1,103	0	0	0
Northeastern Illinois U.	80	2,018	2,018	0	0	0	0	0
U. Puerto Rico, Cayey	81	1,974	1,210	0	639	13	112	0
California State U., Stanislaus	82	1,843	1,284	73	79	399	8	0
CUNY, York C.	83	1,691	1,513	0	156	0	22	0
La Sierra U.	84	1,647	618	0	531	0	498	0
Sonoma State U.	85	1,545	936	310	247	16	36	0
Mills C.	86	1,541	1,341	24	70	0	90	16
California State U., Channel Islands	87	1,497	553	574	339	31	0	0

TABLE 33

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. of the Incarnate Word	88	1,469	869	130	155	42	268	5
U. Puerto Rico, Humacao	89	1,456	1,279	0	177	0	0	0
U. Houston-Clear Lake	90	1,363	632	513	33	102	83	0
New Mexico Highlands U.	91	1,090	1,034	0	0	0	56	0
Polytechnic U. Puerto Rico	92	813	813	0	NA	0	0	0
U. Ana G. Mendez, Carolina	93	647	520	0	127	0	0	0
California Lutheran U.	94	630	271	0	359	0	0	0
New Jersey City U.	95	262	223	0	39	0	0	0

i = imputed. NA = not available; data were not provided by institution.

HHE = high Hispanic enrollment.

Note(s):
HHE institutions are those whose full-time equivalent (FTE) undergraduate students enrollment is at least 25% Hispanic, according to fall 2019 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All HHE institutions	-	6,858,645	201,557	290,999	3,688,883	88,011	649,977	224,407	200,315	59,232	885,776	569,488
U. Texas M. D. Anderson Cancer Center	1	1,051,297	0	0	981,164	21,622	19,060	16,860	12,591	0	0	0
U. Arizona	2	760,975	15,084	31,148	437,147	3,098	149,138	2,900	17,689	7,566	79,463	17,742
U. California, Irvine	3	490,597	21,573	12,705	289,422	7,106	40,964	11,448	12,741	799	59,695	34,144
U. Illinois, Chicago	4	412,147	12,999	1,021	314,296	4,109	15,752	3,621	7,905	4,862	31,496	16,086
U. Texas Health Science Center, Houston	5	273,862	0	0	273,862	0	0	0	0	0	0	0
U. California, Santa Barbara	6	254,434	9,231	40,396	30,838	1,416	58,534	4,929	7,631	867	87,681	12,911
U. New Mexico	7	243,375	3,964	6,924	148,158	1,422	8,063	6,827	10,624	8,528	42,739	6,126
U. Central Florida	8	239,343	29,423	4,008	32,376	3,197	34,630	10,968	9,513	1,602	62,071	51,555
Florida International U.	9	236,842	16,175	16,023	55,877	1,470	27,354	34,642	17,828	1,063	39,826	26,584
U. Texas Health Science Center, San Antonio	10	202,572	0	0	202,572	0	0	0	0	0	0	0
U. Houston	11	200,428	5,599	9,437	34,394	3,596	50,164	13,999	1,536	647	55,210	25,846
Texas Tech U.	12	199,643	5,111	8,913	49,230	3,402	15,103	10,670	11,877	0	42,856	52,481
U. California, Riverside	13	184,894	8,974	10,855	95,431	1,682	17,037	2,950	5,132	3,923	31,937	6,973
U. California, Santa Cruz	14	150,400	5,009	29,389	27,565	236	36,262	487	5,724	347	41,752	3,629
U. Texas, San Antonio	15	138,586	12,064	2,354	25,911	1,529	11,234	4,716	9,447	1,429	22,922	46,980
U. Texas, Arlington	16	133,793	7,572	877	18,430	2,053	17,257	1,329	104	0	59,395	26,776
U. Texas, El Paso	17	108,628	7,597	3,426	28,552	2,927	6,775	5,285	4,161	3,542	25,172	21,191
New Mexico State U.	18	107,275	4,539	5,381	43,340	188	26,366	276	469	228	25,030	1,458
U. Nevada, Las Vegas	19	105,872	1,077	6,342	34,733	2,347	9,692	3,767	6,306	613	12,729	28,266
San Diego State U.	20	97,710	1,519	2,234	27,880	3,899	6,402	20,222	5,106	3,669	7,934	18,845
Rush U.	21	94,438	0	0	92,494	0	0	1,944	0	0	0	0
U. North Texas, Denton	22	84,239	4,769	2,064	12,745	1,676	9,275	4,489	7,541	0	15,205	26,475
Texas State U.	23	70,714	2,197	7,357	12,417	1,038	2,208	223	4,907	2,003	6,892	31,472
Northern Arizona U.	24	64,456	2,671	7,408	38,862	0	7,064	725	419	403	4,996	1,908
U. Texas Rio Grande Valley	25	56,702	1,520	1,769	28,351	2,174	5,148	917	3,660	53	4,018	9,092
Florida Atlantic U.	26	53,845	2,586	1,186	28,725	1,268	3,147	2,306	210	0	10,574	3,843
San Jose State U.	27	47,301	10	13,747	1,542	0	2,445	19,670	190	7	2,863	6,827
U. California, Merced	28	45,966	194	2,943	9,333	3,047	7,593	1,712	2,988	420	15,191	2,545
CUNY, City C.	29	45,632	1,490	1,699	7,167	389	9,591	693	6	0	23,140	1,457

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Tech U., Health Sciences Center	30	44,135	0	0	43,102	0	0	0	0	0	0	1,033
CUNY, Hunter C.	31	38,345	1,726	1,339	8,957	174	4,197	14,507	3,051	0	0	4,394
U. Puerto Rico, Medical Sciences Campus	32	37,217	0	136	37,081	0	0	0	0	0	0	0
San Francisco State U.	33	33,078 i	869 i	4,450 i	13,391 i	1,060 i	3,200 i	1,375 i	3,760 i	1,344 i	1,330 i	2,299 i
Texas A&M U.-Corpus Christi	34	32,284	222	11,900	6,975	21	1,437	0	151	476	7,064	4,038
Rutgers, State U. New Jersey, Newark	35	28,006	2,269	1,485	13,014	0	2,384	2,132	1,678	156	0	4,888
U. Puerto Rico, Mayaguez	36	26,553	0	5,487	1,881	45	1,347	0	233	0	16,903	657
Nova Southeastern U.	37	26,035	146	11,436	13,298	0	0	596	0	0	0	559
Loma Linda U.	38	25,077 i	0 i	0 i	25,077 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Sacramento	39	24,939	178	839	1,328	94	296	310	7,680	2,956	7,744	3,514
New Mexico Institute of Mining and Technology	40	24,591	2,780	6,729	260	53	1,361	0	0	0	13,084	324
U. Puerto Rico, Rio Piedras	41	22,895	207	3,754	3,617	145	4,429	0	1,119	4,276	341	5,007
Texas A&M U.-Kingsville	42	22,745	0	849	16,722	0	164	98	0	82	2,653	2,177
California State U., Northridge	43	21,228	201	2,158	6,822	980	5,407	473	559	1,690	1,115	1,823
Montclair State U.	44	17,636	535	1,262	3,277	726	589	2,060	2,138	3	14	7,032
California State U., Long Beach	45	16,684	102	514	4,816	691	2,670	1,465	625	284	4,733	784
CUNY, Queens C.	46	16,470	182	817	11,236	228	1,444	1,222	477	0	0	864
Humboldt State U.	47	14,236	64	1,464	7,291	10	193	0	616	0	4,261	337
CUNY, John Jay C. of Criminal Justice	48	13,939	195	0	92	5	507	3,546	210	2	0	9,382
Charles R. Drew U. of Medicine and Science	49	13,682	0	0	13,682	0	0	0	0	0	0	0
Ponce Health Sciences U.	50	13,566	0	0	13,566	0	0	0	0	0	0	0
California State U., San Marcos	51	13,250	987	47	1,888	82	1,667	1,261	884	2,694	2,408	1,332
California State U., San Bernardino	52	10,819	472	87	948	633	1,569	1,775	320	13	1,598	3,404
California State U., Los Angeles	53	10,590	36	0	2,299	10	5,241	110	1,570	0	922	402
Texas Tech U., Health Sciences Center, El Paso	54	10,421	0	0	10,294	0	0	0	0	0	0	127
St. Edward's U.	55	9,619	1,150	528	1,620	645	1,074	20	340	0	0	4,242
William Paterson U.	56	9,603	125	579	1,210	185	361	944	1,568	0	0	4,631
California State U., East Bay	57	9,072	329	1,029	1,103	896	939	410	677	0	132	3,557
California State U., Fresno	58	8,856	117	147	4,306	412	1,127	34	456	0	1,748	509

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State Polytechnic U., Pomona	59	7,396	653	68	2,656	138	1,395	0	39	327	1,875	245
Azusa Pacific U.	60	7,068	148	0	2,002	64	205	885	274	0	31	3,459
California State U., Bakersfield	61	7,053	0	176	245	3,173	91	504	264	0	1,449	1,151
West Texas A&M U.	62	6,220	210	219	3,570	1	211	0	0	0	1,277	732
California State U., Fullerton	63	5,929	83	329	2,440	11	1,254	106	110	508	616	472
California State U., Monterey Bay	64	5,874	1,023	1,281	3,225	234	0	0	0	0	0	111
CUNY, Graduate Center	65	4,787	0	0	116	23	630	576	2,238	0	30	1,174
California State U., Chico	66	4,305	10	395	1,466	57	182	15	426	0	1,120	634
CUNY, Lehman C.	67	4,154	476	37	256	271	2,208	1	180	0	0	725
Texas Woman's U.	68	4,135	14	0	2,259	23	204	488	200	50	0	897
U. Central del Caribe	69	3,931	0	0	3,931	0	0	0	0	0	0	0
CUNY, C. Staten Island	70	3,682	66	0	1,277	691	860	342	4	0	294	148
Colorado State U., Pueblo	71	3,104	0	0	1,703	6	18	0	0	0	210	1,167
Texas A&M International U.	72	3,067	80	84	333	1	42	34	59	1,009	71	1,354
U. Houston-Downtown	73	2,299	95	94	46	10	72	0	247	82	36	1,617
Kean U.	74	2,201	509	301	183	0	39	0	44	0	0	1,125
CUNY, New York City C. of Technology	75	2,130	177	0	496	409	212	0	6	235	367	228
U. Texas of the Permian Basin	76	2,105	0	0	335	0	24	7	320	36	217	1,166
Sul Ross State U.	77	2,068	0	22	1,595	0	0	0	451	0	0	0
California State U., Dominguez Hills	78	2,065	700	13	144	116	556	95	186	0	0	255
U. Ana G. Mendez, Gurabo	79	2,049	0	0	779	0	362	0	0	0	884	24
Northeastern Illinois U.	80	2,018	39	50	1,122	53	66	0	48	0	0	640
U. Puerto Rico, Cayey	81	1,974	0	0	1,092	0	203	53	460	166	0	0
California State U., Stanislaus	82	1,843	331	1	1,169	194	17	13	44	0	0	74
CUNY, York C.	83	1,691	0	527	494	0	568	0	59	0	0	43
La Sierra U.	84	1,647	0	0	101	0	1	78	0	0	0	1,467
Sonoma State U.	85	1,545	8	571	456	141	203	10	40	29	1	86
Mills C.	86	1,541	0	0	95	16	0	0	18	0	0	1,412
California State U., Channel Islands	87	1,497	0	0	901	181	39	0	45	233	0	98
U. of the Incarnate Word	88	1,469	0	0	962	148	226	0	0	0	72	61
U. Puerto Rico, Humacao	89	1,456	0	0	255	1	1,090	101	0	9	0	0

TABLE 34

Higher education R&D expenditures at high-Hispanic-enrollment institutions, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Houston-Clear Lake	90	1,363	111	0	347	0	403	145	120	0	2	235
New Mexico Highlands U.	91	1,090	134	189	226	0	541	0	0	0	0	0
Polytechnic U. Puerto Rico	92	813	813	0	0	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	93	647	0	0	258	0	0	2	0	0	387	0
California Lutheran U.	94	630	14	0	316	16	112	24	16	0	0	132
New Jersey City U.	95	262	24	0	65	47	82	15	0	1	0	28

i = imputed.

HHE = high Hispanic enrollment; nec = not elsewhere classified; S&E = science and engineering.

Note(s):
HHE institutions are those whose full-time equivalent (FTE) undergraduate students enrollment is at least 25% Hispanic, according to fall 2019 data in the Integrated Postsecondary Education Data System, directed by the National Center for Education Statistics. FTE enrollment is calculated as full-time undergraduate student enrollment plus one-third of part-time undergraduate student enrollment. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
All institutions	-	55,491,613	30,804,565	86,296,178
Johns Hopkins U.[a]	1	2,353,684	756,810	3,110,494
Texas A&M U., College Station and Health Science Center	2	1,078,604	52,199	1,130,803
U. Texas M. D. Anderson Cancer Center	3	1,051,297	0	1,051,297
Georgia Institute of Technology	4	1,048,988	0	1,048,988
U. Michigan, Ann Arbor	5	995,653	678,209	1,673,862
Massachusetts Institute of Technology	6	987,968	0	987,968
Harvard U.	7	945,457	294,526	1,239,983
Pennsylvania State U., University Park and Hershey Medical Center	8	892,409	99,514	991,923
U. Wisconsin-Madison	9	892,315	471,616	1,363,931
U. California, Berkeley	10	840,000	0	840,000
U. California, San Diego	11	836,669	567,066	1,403,735
U. Texas, Austin	12	762,144	35,055	797,199
U. Washington, Seattle	13	753,515	703,387	1,456,902
U. Minnesota, Twin Cities	14	716,541	325,841	1,042,382
Cornell U.	15	706,175	483,888	1,190,063
U. Illinois, Urbana-Champaign	16	688,797	379	689,176
Purdue U., West Lafayette	17	687,144	0	687,144
Arizona State U.	18	673,357	0	673,357
U. Maryland[b]	19	642,370	460,692	1,103,062
Michigan State U.	20	623,733	89,464	713,197
U. California, Davis	21	597,856	218,837	816,693
U. Arizona	22	561,417	199,558	760,975
Virginia Polytechnic Institute and State U.	23	556,341	0	556,341
North Carolina State U.	24	546,290	0	546,290
U. Pennsylvania	25	531,344	1,048,020	1,579,364
Ohio State U.	26	530,446	437,814	968,260
U. Florida	27	528,556	413,667	942,223
U. Colorado Boulder	28	525,674	0	525,674
U. California, Los Angeles	29	515,162	877,779	1,392,941
Columbia U. in the City of New York	30	503,786	529,123	1,032,909
U. North Carolina, Chapel Hill	31	499,144	660,581	1,159,725
U. Georgia	32	482,786	0	482,786
California Institute of Technology	33	449,651	0	449,651
Scripps Research Institute	34	444,964	0	444,964
Boston U.	35	407,436	175,831	583,267
Colorado State U., Fort Collins	36	407,302	0	407,302
Stanford U.	37	399,454	804,496	1,203,950
Princeton U.	38	396,502	0	396,502
U. Utah	39	389,657	217,404	607,061
U. Southern California	40	387,749	553,449	941,198
Carnegie Mellon U.	41	386,996	0	386,996
Rutgers, State U. New Jersey, New Brunswick	42	373,173	314,904	688,077
New York U.	43	369,469	577,824	947,293
Iowa State U.	44	363,107	0	363,107
Vanderbilt U. and Vanderbilt U. Medical Center	45	363,102	461,701	824,803
Rockefeller U.	46	356,217	0	356,217

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
SUNY, Polytechnic Institute	47	355,651	0	355,651
U. California, Irvine	48	328,096	162,501	490,597
Washington State U.	49	325,293	9,908	335,201
U. Virginia, Charlottesville	50	324,581	327,421	652,002
U. Nebraska, Lincoln	51	320,463	0	320,463
U. Tennessee, Knoxville[c]	52	320,407	0	320,407
Emory U.	53	319,720	489,072	808,792
Florida State U.	54	318,206	32,224	350,430
Utah State U.	55	304,256	0	304,256
U. Pittsburgh, Pittsburgh	56	288,930	816,602	1,105,532
Louisiana State U., Baton Rouge	57	286,733	0	286,733
U. Missouri, Columbia	58	281,007	51,173	332,180
Mississippi State U.	59	280,485	0	280,485
Oregon State U.	60	268,385	0	268,385
Auburn U., Auburn	61	255,281	0	255,281
U. California, Santa Barbara	62	254,434	0	254,434
U. Kentucky	63	253,142	164,532	417,674
U. Hawaii, Manoa	64	246,551	29,378	275,929
Duke U.	65	245,390	951,248	1,196,638
Indiana U., Bloomington	66	244,804	483,750	728,554
U. Central Florida	67	234,675	4,668	239,343
U. Oklahoma, Norman and Health Science Center	68	233,399	128,810	362,209
U. Iowa	69	232,632	305,951	538,583
Clemson U.	70	228,597	0	228,597
Woods Hole Oceanographic Institution	71	227,573	0	227,573
U. Notre Dame	72	227,535	0	227,535
U. Kansas	73	224,881	143,930	368,811
Florida International U.	74	223,602	13,240	236,842
U. Illinois, Chicago	75	223,230	188,917	412,147
U. California, San Francisco	76	221,439	1,429,634	1,651,073
George Mason U.	77	221,006	0	221,006
U. Delaware	78	220,445	0	220,445
U. Massachusetts, Amherst	79	219,389	0	219,389
SUNY, U. Buffalo	80	215,952	206,086	422,038
Kansas State U.	81	213,900	0	213,900
George Washington U.	82	206,955	63,414	270,369
Northwestern U.	83	205,330	669,341	874,671
U. South Florida, Tampa	84	203,482	129,862	333,344
Georgia State U.	85	202,451	0	202,451
U. South Carolina, Columbia	86	201,281	18,183	219,464
U. Houston	87	200,205	223	200,428
Northeastern U.	88	200,068	0	200,068
Texas Tech U.	89	199,643	0	199,643
Rice U.	90	198,681	0	198,681
Yale U.	91	196,730	897,405	1,094,135
Temple U.	92	196,479	103,228	299,707
Oregon Health and Science U.	93	189,788	257,102	446,890
U. Connecticut	94	189,016	91,115	280,131

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Oklahoma State U., Stillwater	95	187,060	0	187,060
U. Colorado Denver and Anschutz Medical Campus	96	186,024	368,619	554,643
U. Alabama, Birmingham	97	184,778	433,448	618,226
U. California, Riverside	98	172,270	12,624	184,894
Dartmouth C. and Dartmouth Hitchcock Medical Center	99	168,411	157,938	326,349
Tufts U.	100	168,214	48,027	216,241
Montana State U., Bozeman	101	166,285	0	166,285
U. Arkansas, Fayetteville	102	165,887	0	165,887
U. Louisiana, Lafayette	103	164,070	0	164,070
U. Dayton	104	163,718	0	163,718
West Virginia U.	105	161,641	26,811	188,452
U. New Hampshire	106	156,901	0	156,901
New Jersey Institute of Technology	107	155,715	0	155,715
North Dakota State U.	108	155,645	0	155,645
U. Chicago	109	155,330	303,561	458,891
Wichita State U.	110	153,816	0	153,816
Washington U., Saint Louis	111	152,404	767,811	920,215
U. Alaska, Fairbanks	112	152,299	0	152,299
U. California, Santa Cruz	113	150,400	0	150,400
U. Rochester	114	150,219	246,992	397,211
Syracuse U.	115	149,652	0	149,652
U. New Mexico	116	144,362	99,013	243,375
SUNY, Stony Brook U.	117	143,701	119,769	263,470
U. Texas, San Antonio	118	138,586	0	138,586
SUNY, U. Albany	119	138,088	0	138,088
Brown U.	120	136,108	130,019	266,127
U. Texas, Arlington	121	133,793	0	133,793
U. Texas, Dallas	122	132,192	0	132,192
U. Maine	123	132,184	0	132,184
U. Alabama, Huntsville	124	131,648	0	131,648
Tulane U.	125	130,069	74,361	204,430
Virginia Commonwealth U.	126	129,456	154,418	283,874
U. Nevada, Reno	127	128,712	31,078	159,790
SUNY, Binghamton U.	128	117,870	0	117,870
Cold Spring Harbor Laboratory	129	115,198	0	115,198
U. Oregon	130	114,259	0	114,259
U. Idaho	131	112,810	0	112,810
U. Texas Health Science Center, Houston	132	111,073	162,789	273,862
Georgetown U.	133	110,372	148,287	258,659
U. Montana, Missoula	134	110,218	0	110,218
U. Rhode Island	135	109,967	0	109,967
U. Texas, El Paso	136	108,628	0	108,628
Rensselaer Polytechnic Institute	137	107,623	0	107,623
New Mexico State U.	138	107,275	0	107,275
U. Cincinnati	139	101,404	428,734	530,138
San Diego State U.	140	97,710	0	97,710
U. Nevada, Las Vegas	141	96,826	9,046	105,872
Uniformed Services U. of the Health Sciences	142	96,529	227,981	324,510

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
Drexel U.	143	96,094	47,029	143,123
U. Alabama, Tuscaloosa	144	95,200	0	95,200
U. Wyoming	145	93,061	0	93,061
U. Massachusetts, Lowell	146	92,216	0	92,216
U. Miami	147	91,700	289,710	381,410
U. Vermont	148	85,358	105,789	191,147
U. North Dakota	149	85,026	26,637	111,663
U. North Texas, Denton	150	84,239	0	84,239
U. Maryland, Baltimore County	151	83,867	0	83,867
Case Western Reserve U.	152	83,435	356,343	439,778
Wayne State U.	153	80,022	163,237	243,259
U. Mississippi	154	79,403	43,557	122,960
Colorado School of Mines	155	78,517	0	78,517
Cleveland State U.	156	78,189	0	78,189
Michigan Technological U.	157	77,927	0	77,927
U. Nebraska, Medical Center	158	76,908	125,498	202,406
U. Southern Mississippi	159	72,322	0	72,322
U. Texas Southwestern Medical Center	160	72,225	523,714	595,939
American U.	161	71,839	0	71,839
Indiana U.-Purdue U., Indianapolis	162	71,387	0	71,387
Texas State U.	163	70,714	0	70,714
U. Memphis	164	69,463	0	69,463
William & Mary	165	66,763	0	66,763
Old Dominion U.	166	65,704	0	65,704
Northern Arizona U.	167	64,456	0	64,456
U. Massachusetts, Boston	168	64,219	0	64,219
Brandeis U.	169	63,201	0	63,201
Boston C.	170	63,063	0	63,063
Naval Postgraduate School	171	62,903	0	62,903
U. Louisville	172	61,440	137,378	198,818
U. Wisconsin-Milwaukee	173	61,069	0	61,069
South Dakota State U.	174	60,939	0	60,939
U. California, Office of the President	175	60,686	0	60,686
Van Andel Research Institute	176	58,982	0	58,982
Rochester Institute of Technology	177	57,777	0	57,777
U. Maryland Center for Environmental Science	178	54,560	0	54,560
Kent State U.	179	50,307	0	50,307
U. North Carolina, Charlotte	180	50,050	0	50,050
Medical U. South Carolina	181	47,915	224,675	272,590
San Jose State U.	182	47,301	0	47,301
Missouri U. of Science and Technology	183	47,001	0	47,001
Florida Atlantic U.	184	46,033	7,812	53,845
U. California, Merced	185	45,966	0	45,966
Stevens Institute of Technology	186	44,747	0	44,747
U. North Texas, Health Science Center	187	44,364	3,028	47,392
Mercer U.	188	43,837	5,279	49,116
Portland State U.	189	43,667	0	43,667
Boise State U.	190	43,307	0	43,307

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
Worcester Polytechnic Institute	191	43,092		0		43,092	
Southern Methodist U.	192	43,081		0		43,081	
Ohio U.	193	42,450		9,464		51,914	
U.S. Air Force Academy	194	42,197		0		42,197	
U. Texas Health Science Center, San Antonio	195	42,022		160,550		202,572	
U. Denver	196	41,349		0		41,349	
Florida A&M U.	197	41,319		0		41,319	
CUNY, City C.	198	41,295		4,337		45,632	
U. West Florida	199	40,051		0		40,051	
Baylor U.	200	39,765		0		39,765	
Brigham Young U., Provo	201	38,569		0		38,569	
CUNY, Hunter C.	202	38,345		0		38,345	
East Carolina U.	203	38,340		19,480		57,820	
Wright State U.	204	38,193		11,632		49,825	
Lehigh U.	205	38,064		0		38,064	
Marquette U.	206	37,136		0		37,136	
Saint Louis U.	207	36,425		33,103		69,528	
North Carolina Agricultural and Technical State U.	208	36,151		0		36,151	
U. Toledo	209	35,620		18,480		54,100	
Air Force Institute of Technology	210	35,584		0		35,584	
U. Texas Rio Grande Valley	211	34,097		22,605		56,702	
San Francisco State U.	212	33,078	i	0	i	33,078	i
Texas A&M U.-Corpus Christi	213	32,284		0		32,284	
Illinois State U.	214	32,260		0		32,260	
U. South Alabama	215	32,207		18,895		51,102	
U. Missouri, Kansas City	216	31,147		5,209		36,356	
SUNY, C. of Environmental Science and Forestry	217	29,296		0		29,296	
Illinois Institute of Technology	218	29,122		0		29,122	
U. North Carolina, Greensboro	219	28,966		0		28,966	
Rutgers, State U. New Jersey, Newark	220	28,006		0		28,006	
Howard U.	221	27,749		17,184		44,933	
U. Massachusetts, Dartmouth	222	26,836		0		26,836	
Chapman U.	223	26,660		0		26,660	
California Polytechnic State U., San Luis Obispo	224	26,605		0		26,605	
Louisiana Tech U.	225	26,585		0		26,585	
U. Puerto Rico, Mayaguez	226	26,553		0		26,553	
Desert Research Institute	227	26,428		0		26,428	
U. Minnesota, Duluth	228	26,137		0		26,137	
Villanova U.	229	25,505		0		25,505	
Northern Illinois U.	230	25,420		0		25,420	
Catholic U. of America	231	25,221		0		25,221	
California State U., Sacramento	232	24,939		0		24,939	
New Mexico Institute of Mining and Technology	233	24,591		0		24,591	
Miami U.	234	24,489		0		24,489	
U. Puerto Rico, Medical Sciences Campus	235	24,410		12,807		37,217	
Delaware State U.	236	23,876	i	0	i	23,876	i
U. Nebraska, central administration	237	23,672		0		23,672	
U. Akron	238	23,496		0		23,496	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Puerto Rico, Rio Piedras	239	22,895	0	22,895
Texas A&M U.-Kingsville	240	22,745	0	22,745
U. Alaska, Anchorage	241	22,713	0	22,713
Teachers C., Columbia U.	242	22,630	0	22,630
Southern Illinois U., Carbondale	243	21,871	19,746	41,617
U. Texas Health Science Center, Tyler	244	21,265	0	21,265
California State U., Northridge	245	21,228	0	21,228
Tuskegee U.	246	20,973	0	20,973
Fordham U.	247	20,456	0	20,456
U. South Dakota	248	19,458	9,821	29,279
Western Michigan U. and Homer Stryker M.D. School of Medicine	249	18,924	5,617	24,541
U. Tulsa	250	18,787	0	18,787
Bowling Green State U.	251	18,729	0	18,729
Prairie View A&M U.	252	18,723	0	18,723
Southern Illinois U., Edwardsville	253	18,273	0	18,273
Florida Institute of Technology	254	18,271	0	18,271
U. South Florida, Saint Petersburg	255	18,243	0	18,243
Kennesaw State U.	256	17,954	0	17,954
Embry-Riddle Aeronautical U.	257	17,786	0	17,786
Montclair State U.	258	17,636	0	17,636
Duquesne U.	259	17,485	0	17,485
Morgan State U.	260	17,193	0	17,193
California State U., Long Beach	261	16,684	0	16,684
U. New Orleans	262	16,594	0	16,594
U. North Carolina, Wilmington	263	16,544	0	16,544
CUNY, Queens C.	264	16,470	0	16,470
U. Nebraska, Omaha	265	16,134	0	16,134
Texas Tech U., Health Sciences Center	266	16,049	28,086	44,135
North Carolina Central U.	267	15,833	0	15,833
Tennessee State U.	268	15,377	0	15,377
U. Missouri, Saint Louis	269	15,352	0	15,352
Texas Christian U.	270	15,284	42	15,326
Rowan U.	271	15,137	10,881	26,018
Clarkson U.	272	15,104	0	15,104
Jackson State U.	273	15,081	0	15,081
U. Baltimore	274	15,054	0	15,054
Tarleton State U.	275	14,890	0	14,890
Thomas Jefferson U.	276	14,889	156,488	171,377
South Dakota School of Mines and Technology	277	14,490	0	14,490
Idaho State U.	278	14,478	0	14,478
Nova Southeastern U.	279	14,447	11,588	26,035
Langston U.	280	14,409	0	14,409
Humboldt State U.	281	14,236	0	14,236
Wake Forest U.	282	14,146	230,497	244,643
Tennessee Technological U.	283	14,085	0	14,085
Long Island U.	284	13,997	0	13,997
CUNY, John Jay C. of Criminal Justice	285	13,939	0	13,939
Alcorn State U.	286	13,710	0	13,710

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
U. of the Virgin Islands	287	13,631		0		13,631	
U. North Florida	288	13,573		0		13,573	
U. Hawaii, system office	289	13,568		0		13,568	
California State U., San Marcos	290	13,250		0		13,250	
Central Michigan U.	291	13,203		4,245		17,448	
New School	292	13,186		0		13,186	
Missouri State U.	293	13,131		0		13,131	
U.S. Naval Academy	294	13,123		0		13,123	
U. Guam	295	13,043		0		13,043	
Montana Technological U.	296	12,987		0		12,987	
Western Washington U.	297	12,823		0		12,823	
U.S. Military Academy	298	12,473		0		12,473	
Sam Houston State U.	299	12,275		162		12,437	
CUNY, Graduate School of Public Health and Health Policy	300	12,177		0		12,177	
Georgia Southern U.	301	12,166		0		12,166	
Charles R. Drew U. of Medicine and Science	302	11,921		1,761		13,682	
Oakland U.	303	11,880		1,069		12,949	
Bryn Mawr C.	304	11,575		0		11,575	
Hampton U.	305	11,402		0		11,402	
Xavier U. Louisiana	306	11,387		0		11,387	
CUNY, Advanced Science Research Center	307	11,373		0		11,373	
U. Tennessee, Chattanooga	308	10,834		0		10,834	
California State U., San Bernardino	309	10,819		0		10,819	
California State U., Los Angeles	310	10,590		0		10,590	
Loma Linda U.	311	10,284	i	14,793	i	25,077	i
Clark U.	312	10,277		0		10,277	
James Madison U.	313	10,247		0		10,247	
Rhode Island C.	314	10,094		0		10,094	
Virginia State U.	315	10,014		0		10,014	
U. Arkansas, Little Rock	316	9,711		0		9,711	
St. Edward's U.	317	9,619		0		9,619	
William Paterson U.	318	9,603		0		9,603	
Salisbury U.	319	9,496		0		9,496	
SUNY, Upstate Medical U.	320	9,460		32,097		41,557	
Ball State U.	321	9,429		0		9,429	
Claremont Graduate U.	322	9,403		0		9,403	
Eastern Michigan U.	323	9,088		0		9,088	
California State U., East Bay	324	9,072		0		9,072	
California State U., Fresno	325	8,856		0		8,856	
U. Michigan, Dearborn	326	8,777		0		8,777	
Alabama A&M U.	327	8,749		0		8,749	
Middle Tennessee State U.	328	8,697		0		8,697	
Arkansas State U., Jonesboro	329	8,640		0		8,640	
Marshall U.	330	8,614		13,636		22,250	
U. San Diego	331	8,607		0		8,607	
U. Arkansas, Pine Bluff	332	8,540		0		8,540	
Clark Atlanta U.	333	8,452		0		8,452	
Louisiana State U., Health Sciences Center, New Orleans	334	8,346		35,073		43,419	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
Wesleyan U.	335	8,300		0		8,300	
Western Kentucky U.	336	8,241		0		8,241	
U. Maryland, Eastern Shore	337	8,092		0		8,092	
Wellesley C.	338	8,088		0		8,088	
Kentucky State U.	339	7,963		0		7,963	
California State Polytechnic U., Pomona	340	7,396		0		7,396	
Loyola Marymount U.	341	7,193		0		7,193	
Norfolk State U.	342	7,153		0		7,153	
U. Washington, Bothell	343	7,107		0		7,107	
U. Texas Medical Branch	344	7,076		173,519		180,595	
CUNY, Brooklyn C.	345	7,074		0		7,074	
Azusa Pacific U.	346	7,068		0		7,068	
California State U., Bakersfield	347	7,053		0		7,053	
U. Hawaii, Hilo	348	6,992		0		6,992	
Grand Valley State U.	349	6,792		0		6,792	
Florida Gulf Coast U.	350	6,671		0		6,671	
DePaul U.	351	6,557		0		6,557	
Indiana U. Pennsylvania	352	6,531		0		6,531	
West Chester U. Pennsylvania	353	6,414		0		6,414	
Loyola U., Chicago	354	6,411		32,954		39,365	
West Texas A&M U.	355	6,220		0		6,220	
Central State U.	356	6,107		0		6,107	
Naval War C.	357	5,944		0		5,944	
California State U., Fullerton	358	5,929		0		5,929	
Toyota Technological Institute, Chicago	359	5,887		0		5,887	
California State U., Monterey Bay	360	5,874		0		5,874	
Claremont McKenna C.	361	5,846		0		5,846	
Pacific U.	362	5,842		0		5,842	
Purdue U., Northwest	363	5,839		0		5,839	
Grinnell C.	364	5,826		0		5,826	
U. Central Oklahoma	365	5,788	i	0	i	5,788	i
Winston-Salem State U.	366	5,781		0		5,781	
Lincoln U., Jefferson City	367	5,777		0		5,777	
West Virginia State U.	368	5,775		0		5,775	
C. Charleston	369	5,728		0		5,728	
Seton Hall U.	370	5,718		0		5,718	
U. Southern Maine	371	5,635		0		5,635	
U. Colorado Colorado Springs	372	5,557		0		5,557	
U. New England	373	5,548		1,338		6,886	
Creighton U.	374	5,546	i	14,793	i	20,339	
Southern Connecticut State U.	375	5,413		0		5,413	
Bucknell U.	376	5,339	i	0	i	5,339	i
Western U. of Health Sciences	377	5,272		627		5,899	
East Tennessee State U.	378	5,258		8,667		13,925	
U. Massachusetts, central office	379	5,225		0		5,225	
Reed C.	380	5,155		0		5,155	
U. Oklahoma, Tulsa	381	5,010		2,473		7,483	
Williams C.	382	4,924	i	0	i	4,924	i

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
Fort Valley State U.	383	4,921		0		4,921	
Amherst C.	384	4,906		0		4,906	
Appalachian State U.	385	4,894		0		4,894	
U. of Health Sciences and Pharmacy in St. Louis	386	4,835		0		4,835	
Morehouse C.	387	4,825		0		4,825	
U. North Carolina, Asheville	388	4,789		0		4,789	
CUNY, Graduate Center	389	4,787		0		4,787	
U. Detroit Mercy	390	4,786		0		4,786	
Texas Southern U.	391	4,782		0		4,782	
U. Wisconsin-Stevens Point	392	4,764		0		4,764	
Smith C.	393	4,685		0		4,685	
Augusta U.	394	4,651		99,310		103,961	
Gallaudet U.	395	4,599		0		4,599	
U. of the District of Columbia	396	4,590		0		4,590	
National Defense U.	397	4,583		0		4,583	
Southern U. and A&M C., Agricultural Research and Extension Center	398	4,475		0		4,475	
Haverford C.	399	4,473		0		4,473	
Dakota State U.	400	4,412		0		4,412	
Roseman U. of Health Sciences	401	4,380		0		4,380	
Lamar U.	402	4,327		0		4,327	
California State U., Chico	403	4,305		0		4,305	
Des Moines U.	404	4,299		722		5,021	
Pace U.	405	4,272		0		4,272	
Oregon Institute of Technology	406	4,267		0		4,267	
Stockton U.	407	4,236		0		4,236	
Texas A&M U.-Commerce	408	4,166		0		4,166	
CUNY, Lehman C.	409	4,154		0		4,154	
Texas Woman's U.	410	4,135		0		4,135	
Youngstown State U.	411	4,120		0		4,120	
Rutgers, State U. New Jersey, Camden	412	3,950		0		3,950	
U. North Carolina, general administration	413	3,942		0		3,942	
Fisk U.	414	3,904		0		3,904	
Southern U. and A&M C., Baton Rouge	415	3,849		0		3,849	
U. New Haven	416	3,843		0		3,843	
Hope C.	417	3,822		0		3,822	
Midwestern U.	418	3,812		6,667		10,479	
South Carolina State U.	419	3,796	i	0	i	3,796	i
Albany C. of Pharmacy and Health Sciences	420	3,765		0		3,765	
U. of the Sciences Philadelphia	421	3,761		0		3,761	
Barnard C.	422	3,748		0		3,748	
U. Northern Colorado	423	3,738		0		3,738	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	424	3,737		0		3,737	
Carleton C.	425	3,732		0		3,732	
CUNY, C. Staten Island	426	3,682		0		3,682	
Stephen F. Austin State U.	427	3,672		0		3,672	
Franklin and Marshall C.	428	3,623		0		3,623	
Towson U.	429	3,612		0		3,612	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
MGH Institute of Health Professions	430	3,549		0		3,549	
Swarthmore C.	431	3,544		0		3,544	
U. Washington, Tacoma	432	3,504		0		3,504	
SUNY, C. of Optometry	433	3,477		0		3,477	
Trinity U.	434	3,472		0		3,472	
U. Central Arkansas	435	3,455		0		3,455	
U. Illinois, Springfield	436	3,406		0		3,406	
Lewis and Clark C.	437	3,350		0		3,350	
High Tech High Graduate School of Ed.	438	3,304		0		3,304	
St. John's U., New York	439	3,282		0		3,282	
Rush U.	440	3,239		91,199		94,438	
California State U., Maritime Academy	441	3,202		0		3,202	
Milwaukee School of Engineering	442	3,190		0		3,190	
Saint Joseph's U.	443	3,150		0		3,150	
Colorado State U., Pueblo	444	3,104		0		3,104	
Texas A&M International U.	445	3,067		0		3,067	
St. Cloud State U.	446	3,056		0		3,056	
New York Medical C.	447	3,030		17,107		20,137	
Murray State U.	448	3,019		0		3,019	
U. Northern Iowa	449	2,970		0		2,970	
Harvey Mudd C.	450	2,916		0		2,916	
Colgate U.	451	2,913		0		2,913	
Pomona C.	452	2,855		0		2,855	
Austin Peay State U.	453	2,833		0		2,833	
Fayetteville State U.	454	2,797		0		2,797	
U. Wisconsin-La Crosse	455	2,795		0		2,795	
Alfred U.	456	2,780		0		2,780	
Yeshiva U.	457	2,763		0		2,763	
Minnesota State U., Mankato	458	2,754		0		2,754	
Spelman C.	459	2,750		0		2,750	
Bowdoin C.	460	2,719		0		2,719	
Northwest Indian C.	461	2,708	i	0	i	2,708	i
Western Carolina U.	462	2,696		0		2,696	
Northern Kentucky U.	463	2,693		0		2,693	
Santa Clara U.	464	2,682		0		2,682	
U. of St. Thomas (MN)	465	2,679		0		2,679	
Central Washington U.	466	2,674		0		2,674	
Occidental C.	467	2,657		0		2,657	
U. Nebraska, Kearney	468	2,640		0		2,640	
Christopher Newport U.	469	2,608		0		2,608	
U. South Carolina, Aiken	470	2,590		0		2,590	
Alabama State U.	471	2,582		0		2,582	
Dillard U.	472	2,523		0		2,523	
Johnson C. Smith U.	473	2,472		0		2,472	
U. Richmond	474	2,469		0		2,469	
Albert Einstein C. of Medicine	475	2,463		286,191		288,654	
Western Illinois U.	476	2,461		0		2,461	
Grambling State U.	477	2,427		0		2,427	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
Philadelphia C. of Osteopathic Medicine	478	2,415		945		3,360	
Skidmore C.	479	2,412		0		2,412	
CUNY, Baruch C.	480	2,396		0		2,396	
U. Louisiana, Monroe	481	2,362		0		2,362	
Babson C.	482	2,352		0		2,352	
Saginaw Valley State U.	483	2,343		0		2,343	
Framingham State U.	484	2,317		0		2,317	
Bates C.	485	2,303		0		2,303	
U. Wisconsin-Superior	486	2,301		0		2,301	
U. Houston-Downtown	487	2,299		0		2,299	
Colorado C.	488	2,291		0		2,291	
Eastern Washington U.	489	2,282		0		2,282	
Purdue U., Fort Wayne	490	2,264		0		2,264	
Davidson C.	491	2,263		0		2,263	
Southeastern Louisiana U.	492	2,258		0		2,258	
SUNY, Buffalo State	493	2,253		0		2,253	
Winthrop U.	494	2,217		0		2,217	
Kean U.	495	2,201		0		2,201	
Meharry Medical C.	496	2,183		11,687		13,870	
Pittsburg State U.	497	2,173		0		2,173	
U. San Francisco	498	2,161		0		2,161	
Keck Graduate Institute	499	2,152	i	0	i	2,152	i
U. South Florida, Sarasota-Manatee	500	2,150		0		2,150	
CUNY, New York City C. of Technology	501	2,130		0		2,130	
Hobart and William Smith Colleges	502	2,114		0		2,114	
Suffolk U.	503	2,106		0		2,106	
U. Texas of the Permian Basin	504	2,105		0		2,105	
Tougaloo C.	505	2,102		0		2,102	
Furman U.	506	2,101		0		2,101	
Kettering U.	507	2,081		0		2,081	
Sul Ross State U.	508	2,068		0		2,068	
California State U., Dominguez Hills	509	2,065		0		2,065	
Seattle U.	510	2,060		0		2,060	
Touro U.	511	2,055		1,496		3,551	
U. Ana G. Mendez, Gurabo	512	2,049		0		2,049	
Northeastern Illinois U.	513	2,018		0		2,018	
Mount Holyoke C.	514	2,016		0		2,016	
U. Texas, Tyler	515	2,007		0		2,007	
Pepperdine U.	516	2,006		0		2,006	
Erikson Institute	517	1,992		0		1,992	
U. Wisconsin-Green Bay	518	1,982		0		1,982	
U. Puerto Rico, Cayey	519	1,974		0		1,974	
Elon U.	520	1,968		0		1,968	
Bowie State U.	521	1,967		0		1,967	
Northwestern State U. Louisiana	522	1,940		0		1,940	
Claflin U.	523	1,910		0		1,910	
U. North Georgia	524	1,905		0		1,905	
Coastal Carolina U.	525	1,903		0		1,903	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
Palmer C. of Chiropractic, Davenport	526	1,900		0		1,900	
Morehead State U.	527	1,883		0		1,883	
Hamilton C.	528	1,869		0		1,869	
Pennsylvania State U., Harrisburg	529	1,866		0		1,866	
Mercyhurst U.	530	1,850	i	0	i	1,850	i
California State U., Stanislaus	531	1,843		0		1,843	
Savannah State U.	532	1,804		0		1,804	
Eastern Connecticut State U.	533	1,799		0		1,799	
Hawaii Pacific U.	534	1,796		0		1,796	
U. Wisconsin-Oshkosh	535	1,777	i	0	i	1,777	i
Liberty U.	536	1,764		130		1,894	
Macalester C.	537	1,755		0		1,755	
Pennsylvania State U., Behrend	538	1,743		0		1,743	
Monmouth U.	539	1,729		0		1,729	
Middlebury C.	540	1,720		0		1,720	
SUNY, C. Brockport	541	1,719		0		1,719	
U. of the Pacific	542	1,713		0		1,713	
CUNY, system office	543	1,704		0		1,704	
Troy U.	544	1,692		0		1,692	
CUNY, York C.	545	1,691		0		1,691	
Northeast Ohio Medical U.	546	1,664		14,094		15,758	
La Sierra U.	547	1,647		0		1,647	
SUNY, Geneseo	548	1,642		0		1,642	
Texas Tech U., Health Sciences Center, El Paso	549	1,636		8,785		10,421	
Connecticut C.	550	1,598		0		1,598	
Central Connecticut State U.	551	1,572		0		1,572	
Vassar C.	552	1,568		0		1,568	
Willamette U.	553	1,546		0		1,546	
Sonoma State U.	554	1,545		0		1,545	
Mills C.	555	1,541		0		1,541	
Colby C.	556	1,536		0		1,536	
SUNY, Oswego	557	1,534		0		1,534	
Roger Williams U.	558	1,531		0		1,531	
Northern Michigan U.	559	1,523		0		1,523	
Lawrence Technological U.	560	1,521		0		1,521	
Black Hills State U.	561	1,499		0		1,499	
California State U., Channel Islands	562	1,497		0		1,497	
Calvin U.	562	1,497	i	0	i	1,497	i
Elizabeth City State U.	564	1,473		0		1,473	
Indiana State U.	565	1,471		0		1,471	
C. New Jersey	566	1,464		0		1,464	
U. Puerto Rico, Humacao	567	1,456		0		1,456	
SUNY, C. Plattsburgh	568	1,452		0		1,452	
Hofstra U.	569	1,438		7		1,445	
U. Hartford	570	1,436		0		1,436	
National U. of Natural Medicine	571	1,428		0		1,428	
Trinity C., Hartford	571	1,428		0		1,428	
Franklin W. Olin C. of Engineering	573	1,404		0		1,404	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures		All medical school R&D expenditures		All R&D expenditures	
U. of Mary Washington	574	1,393		0		1,393	
Lafayette C.	575	1,390		0		1,390	
Fort Lewis C.	576	1,370		0		1,370	
U. Houston-Clear Lake	577	1,363		0		1,363	
Marshall B. Ketchum U.	578	1,357	i	0	i	1,357	i
Wheaton C., Wheaton	579	1,322		0		1,322	
U. Wisconsin-Eau Claire	580	1,318		0		1,318	
New York Institute of Technology	581	1,317		2,263		3,580	
Manhattan C.	582	1,307		0		1,307	
U. Alaska, Southeast	583	1,264		0		1,264	
Alaska Pacific U.	584	1,261		0		1,261	
U. Michigan, Flint	585	1,247		0		1,247	
Jacksonville State U.	586	1,244		0		1,244	
Fairfield U.	587	1,210		0		1,210	
Ithaca C.	588	1,199		0		1,199	
Biola U.	589	1,187	i	0	i	1,187	i
U. of the Incarnate Word	590	1,185		284		1,469	
Oberlin C.	591	1,182		0		1,182	
Fort Hays State U.	592	1,172		0		1,172	
Rosalind Franklin U. of Medicine and Science	593	1,153		13,448		14,601	
New England C. of Optometry	594	1,150		0		1,150	
Albion C.	595	1,132		0		1,132	
Saint John's U., Collegeville	596	1,130	i	0	i	1,130	i
Heidelberg U.	597	1,125		0		1,125	
Niagara U.	598	1,124		0		1,124	
Doane U.	599	1,123	i	0	i	1,123	i
U. Wisconsin-River Falls	600	1,107		0		1,107	
U. Wisconsin-Platteville	601	1,104	i	0	i	1,104	i
Providence C.	602	1,092		0		1,092	
Florida Polytechnic U.	603	1,091		0		1,091	
New Mexico Highlands U.	604	1,090		0		1,090	
C. Wooster	605	1,076		0		1,076	
C. of Saint Benedict	606	1,069	i	0	i	1,069	i
Keene State C.	607	1,063		0		1,063	
Union C., Schenectady	608	1,062		0		1,062	
Albany State U.	609	1,060		0		1,060	
Andrews U.	610	1,033		0		1,033	
St. Olaf C.	611	1,032		0		1,032	
Citadel Military C. South Carolina	612	1,012		0		1,012	
Eastern Kentucky U.	613	1,010		0		1,010	
U. Minnesota, Morris	614	1,004		0		1,004	
Lipscomb U.	615	1,000	i	0	i	1,000	i
Rhode Island School of Design	616	975	i	0	i	975	i
Saint Michael's C.	617	957		0		957	
Dickinson C.	618	929		0		929	
Emerson C.	619	919		0		919	
Gettysburg C.	620	913		0		913	
Kenyon C.	621	908		0		908	

TABLE 35

Higher education R&D expenditures at all institutions, ranked by all non-medical school R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Rank	All non-medical school R&D expenditures	All medical school R&D expenditures	All R&D expenditures
U. Puget Sound	622	895	0	895
Midwestern State U.	623	891	0	891
CUNY, Medgar Evers C.	624	882	0	882
Whitman C.	625	865	0	865
Bradley U.	626	851	0	851
Stonehill C.	627	833	0	833
La Salle U.	628	818	0	818
Polytechnic U. Puerto Rico	629	813	0	813
Salish Kootenai C.	630	807	0	807
Weber State U.	631	676	0	676
Benedict C.	632	649	0	649
U. Ana G. Mendez, Carolina	633	647	0	647
California Lutheran U.	634	630	0	630
St. Bonaventure U.	635	585	0	585
SUNY, Downstate Medical Center	636	538	32,666	33,204
Merrimack C.	637	503	0	503
Dine C.	638	347	0	347
New Jersey City U.	639	262	0	262
Columbus State U.	640	261	0	261
Eastern Virginia Medical School	641	235	20,635	20,870
Albany Medical C.	-	0	23,510	23,510
Baylor C. of Medicine	-	0	685,641	685,641
Edward Via C. of Osteopathic Medicine	-	0	7,475	7,475
Icahn School of Medicine at Mount Sinai	-	0	747,014	747,014
Louisiana State U., Health Sciences Center, Shreveport	-	0	25,321	25,321
Medical C. Wisconsin	-	0	264,325	264,325
Morehouse School of Medicine	-	0	29,813	29,813
Oklahoma State U., Center for Health Sciences	-	0	8,378	8,378
Ponce Health Sciences U.	-	0	13,566	13,566
U. Arkansas for Medical Sciences	-	0	174,549	174,549
U. Central del Caribe	-	0	3,931	3,931
U. Massachusetts, Medical School	-	0	279,096	279,096
U. Tennessee, Health Science Center	-	0	99,716	99,716
West Virginia School of Osteopathic Medicine	-	0	1,311	1,311

i = imputed.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	56,663,756	28,492,277	4,204,494	15,609,925	3,175,941	3,281,118	1,900,001
U. Michigan, Ann Arbor	1	1,673,862	884,880	2,074	607,120	96,044	75,131	8,613
U. California, San Francisco	2	1,651,073	676,331	32,635	418,048	120,488	231,371	172,200
U. Washington, Seattle	3	1,456,902	1,024,195	27,087	111,141	57,698	198,220	38,561
U. California, San Diego	4	1,403,735	727,289	45,233	290,347	109,943	110,299	120,624
U. California, Los Angeles	5	1,392,941	655,030	81,216	302,597	82,905	194,946	76,247
U. Wisconsin-Madison	6	1,363,931	632,558	103,607	435,653	29,589	122,835	39,689
U. North Carolina, Chapel Hill	7	1,159,725	706,145	8,129	301,817	49,974	76,679	16,981
Texas A&M U., College Station and Health Science Center	8	1,130,803	517,489	205,190	291,325	35,783	53,539	27,477
U. Pittsburgh, Pittsburgh	9	1,105,532	689,273	11,600	254,704	29,764	65,940	54,251
U. Maryland[a]	10	1,103,062	689,125	39,195	282,188	28,881	57,662	6,011
U. Texas M. D. Anderson Cancer Center	11	1,051,297	186,488	291,619	209,905	194,528	31,021	137,736
Georgia Institute of Technology	12	1,048,988	790,518	107,480	71,373	63,120	14,200	2,297
U. Minnesota, Twin Cities	13	1,042,382	514,092	78,122	333,014	48,857	42,157	26,140
Pennsylvania State U., University Park and Hershey Medical Center	14	991,923	638,930	47,196	211,889	29,131	63,664	1,113
Ohio State U.	15	968,260	539,359	50,614	151,106	150,235	48,000	28,946
U. Florida	16	942,223	397,202	169,194	253,646	37,922	50,483	33,776
U. California, Berkeley	17	840,000	349,989	32,598	181,355	81,265	135,100	59,693
U. California, Davis	18	816,693	380,965	74,086	208,842	54,246	42,970	55,584
U. Texas, Austin	19	797,199	500,409	23,611	147,947	77,789	40,881	6,562
U. Arizona	20	760,975	328,807	33,210	231,170	23,040	34,707	110,041
Indiana U., Bloomington	21	728,554	343,876	3,434	281,536	26,506	71,676	1,526
Michigan State U.	22	713,197	329,748	47,310	290,251	13,141	18,986	13,761
U. Illinois, Urbana-Champaign	23	689,176	387,853	25,302	186,309	36,178	34,212	19,322
Rutgers, State U. New Jersey, New Brunswick	24	688,077	311,743	86,581	130,582	60,291	60,621	38,259
Purdue U., West Lafayette	25	687,144	270,605	39,251	228,677	75,499	30,205	42,907
Arizona State U.	26	673,357	278,150	40,835	248,659	18,148	62,702	24,863
U. Virginia, Charlottesville	27	652,002	300,348	8,780	212,843	29,798	37,430	62,803
U. Alabama, Birmingham	28	618,226	400,110	8,209	116,242	58,758	33,706	1,201
U. Utah	29	607,061	314,023	4,908	209,608	38,458	36,404	3,660
U. Texas Southwestern Medical Center	30	595,939	242,679	66,440	137,027	38,500	53,780	57,513
Virginia Polytechnic Institute and State U.	31	556,341	210,792	61,192	231,204	39,857	6,319	6,977
U. Colorado Denver and Anschutz Medical Campus	32	554,643	348,724	24,563	71,012	50,627	49,479	10,238
North Carolina State U.	33	546,290	232,110	123,750	131,677	53,302	4,750	701
U. Iowa	34	538,583	259,639	5,489	225,307	28,073	20,062	13
U. Cincinnati	35	530,138	285,899	5,867	144,949	38,587	42,326	12,510
U. Colorado Boulder	36	525,674	427,869	4,435	35,695	9,942	15,348	32,385
U. California, Irvine	37	490,597	241,734	15,947	123,966	33,033	28,381	47,536
U. Georgia	38	482,786	171,351	54,667	220,201	9,490	17,725	9,352
Oregon Health and Science U.	39	446,890	321,572	334	44,413	38,692	41,520	359
SUNY, U. Buffalo	40	422,038	200,155	25,016	131,323	29,881	19,164	16,499

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Kentucky	41	417,674	200,664	35,346	130,570	9,985	10,677	30,432
U. Illinois, Chicago	42	412,147	223,030	6,772	135,744	14,766	24,288	7,547
Colorado State U., Fort Collins	43	407,302	287,100	17,707	61,093	13,406	19,938	8,058
U. Kansas	44	368,811	185,007	22,364	116,482	22,089	22,243	626
Iowa State U.	45	363,107	165,912	36,709	125,420	18,149	11,626	5,291
U. Oklahoma, Norman and Health Science Center	46	362,209	183,728	35,983	111,660	17,698	9,232	3,908
SUNY, Polytechnic Institute	47	355,651	27,998	169,352	14,251	139,125	588	4,337
Florida State U.	48	350,430	162,296	4,391	164,970	2,177	8,946	7,650
Washington State U.	49	335,201	154,623	51,641	104,722	13,458	7,101	3,656
U. South Florida, Tampa	50	333,344	158,958	14,824	126,104	15,525	14,530	3,403
U. Missouri, Columbia	51	332,180	156,190	25,000	123,624	13,749	8,132	5,485
Uniformed Services U. of the Health Sciences	52	324,510	235,202	0	82,613	0	6,695	0
U. Nebraska, Lincoln	53	320,463	107,299	54,240	125,648	19,215	5,451	8,610
U. Tennessee, Knoxville[b]	54	320,407	138,402	15,100	147,875	7,580	6,021	5,429
Utah State U.	55	304,256	242,156	22,820	24,719	7,961	784	5,816
Temple U.	56	299,707	154,600	8,556	93,385	17,721	18,264	7,181
Louisiana State U., Baton Rouge	57	286,733	87,895	72,026	99,412	10,461	9,391	7,548
Virginia Commonwealth U.	58	283,874	152,751	28,217	75,230	12,699	14,977	0
Mississippi State U.	59	280,485	120,616	90,345	55,647	3,477	9,055	1,345
U. Connecticut	60	280,131	164,848	5,631	79,292	11,409	12,894	6,057
U. Massachusetts, Medical School	61	279,096	192,938	1,410	45,329	15,073	19,535	4,811
U. Hawaii, Manoa	62	275,929	163,694	19,229	76,169	2,623	12,809	1,405
U. Texas Health Science Center, Houston	63	273,862	133,624	42,174	44,129	16,479	24,958	12,498
Medical U. South Carolina	64	272,590	153,802	5,666	73,804	20,747	11,011	7,560
Oregon State U.	65	268,385	167,494	49,880	25,759	7,387	2,499	15,366
SUNY, Stony Brook U.	66	263,470	146,478	13,795	87,367	5,307	8,287	2,236
Auburn U., Auburn	67	255,281	73,468	31,628	130,268	6,700	1,632	11,585
U. California, Santa Barbara	68	254,434	123,198	4,335	54,929	22,578	29,986	19,408
U. New Mexico	69	243,375	161,627	6,046	61,092	3,733	9,064	1,813
Wayne State U.	70	243,259	113,137	11,699	81,190	5,703	26,350	5,180
U. Central Florida	71	239,343	114,575	14,653	86,095	12,418	6,049	5,553
Florida International U.	72	236,842	103,366	18,582	104,836	2,271	7,059	728
Clemson U.	73	228,597	82,203	26,544	94,600	18,120	6,894	236
George Mason U.	74	221,006	104,070	3,750	58,447	7,972	38,691	8,076
U. Delaware	75	220,445	144,142	10,781	48,912	6,740	4,812	5,058
U. South Carolina, Columbia	76	219,464	97,143	6,028	100,802	4,050	7,250	4,191
U. Massachusetts, Amherst	77	219,389	116,170	7,779	75,307	7,702	8,880	3,551
Kansas State U.	78	213,900	79,100	42,624	76,929	6,594	7,057	1,596
U. Texas Health Science Center, San Antonio	79	202,572	102,959	21,895	45,061	8,048	24,287	322
Georgia State U.	80	202,451	78,199	6,910	101,059	575	15,022	686
U. Nebraska, Medical Center	81	202,406	105,158	11,932	43,265	10,072	16,011	15,968
U. Houston	82	200,428	71,779	33,898	74,188	8,034	9,803	2,726
Texas Tech U.	83	199,643	31,475	29,341	114,278	11,588	12,653	308

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. Louisville	84	198,818	88,251	10,365	64,507	11,584	8,518	15,593
U. Vermont	85	191,147	97,981	1,115	73,959	3,617	8,565	5,910
West Virginia U.	86	188,452	79,657	8,958	70,620	6,077	5,948	17,192
Oklahoma State U., Stillwater	87	187,060	39,873	22,850	111,227	9,807	2,990	313
U. California, Riverside	88	184,894	92,503	10,827	51,440	6,288	7,826	16,010
U. Texas Medical Branch	89	180,595	114,103	7,302	44,544	5,832	8,814	0
U. Arkansas for Medical Sciences	90	174,549	70,508	11,085	69,885	12,826	5,537	4,708
Montana State U., Bozeman	91	166,285	93,759	18,088	45,253	2,392	4,918	1,875
U. Arkansas, Fayetteville	92	165,887	47,454	54,705	51,260	6,648	5,592	228
U. Louisiana, Lafayette	93	164,070	40,044	10,812	32,175	78,591	2,448	0
U. Nevada, Reno	94	159,790	64,793	8,534	74,320	3,807	2,062	6,274
U. New Hampshire	95	156,901	100,373	4,695	38,439	8,430	3,933	1,031
New Jersey Institute of Technology	96	155,715	85,746	2,987	53,611	3,013	5,719	4,639
North Dakota State U.	97	155,645	31,614	50,334	64,673	1,865	1,074	6,085
Wichita State U.	98	153,816	53,540	6,645	10,004	81,356	110	2,161
U. Alaska, Fairbanks	99	152,299	101,414	2,342	41,423	2,774	1,779	2,567
U. California, Santa Cruz	100	150,400	76,468	5,870	31,824	8,701	15,685	11,852
U. Texas, San Antonio	101	138,586	34,334	16,210	65,229	5,703	14,490	2,620
SUNY, U. Albany	102	138,088	67,039	5,201	61,302	705	1,744	2,097
U. Texas, Arlington	103	133,793	44,950	19,309	52,902	5,989	8,740	1,903
U. Texas, Dallas	104	132,192	55,983	11,080	36,906	6,496	21,727	0
U. Maine	105	132,184	54,376	18,487	50,890	3,005	3,685	1,741
U. Alabama, Huntsville	106	131,648	104,288	3,407	22,569	970	282	132
U. Mississippi	107	122,960	82,361	5,171	28,635	2,425	4,104	264
SUNY, Binghamton U.	108	117,870	24,564	4,957	82,764	3,588	1,258	739
U. Oregon	109	114,259	81,278	746	27,587	213	3,386	1,049
U. Idaho	110	112,810	51,450	35,509	19,536	2,581	971	2,763
U. North Dakota	111	111,663	44,153	14,272	40,488	11,419	1,039	292
U. Montana, Missoula	112	110,218	62,067	1,026	44,285	556	1,685	599
U. Rhode Island	113	109,967	67,242	9,302	26,749	2,892	2,960	822
U. Texas, El Paso	114	108,628	39,126	20,684	36,075	1,162	1,622	9,959
New Mexico State U.	115	107,275	60,971	21,097	13,809	1,644	3,827	5,927
U. Nevada, Las Vegas	116	105,872	29,252	2,493	69,282	1,149	655	3,041
Augusta U.	117	103,961	55,797	504	40,408	3,018	4,211	23
U. Tennessee, Health Science Center	118	99,716	48,264	4,503	26,628	3,353	8,902	8,066
San Diego State U.	119	97,710	41,117	3,073	48,934	836	2,043	1,707
U. Alabama, Tuscaloosa	120	95,200	43,017	16,018	32,141	2,525	1,071	428
U. Wyoming	121	93,061	57,353	5,164	24,503	4,519	1,394	128
U. Massachusetts, Lowell	122	92,216	41,304	8,471	35,980	3,263	1,300	1,898
U. North Texas, Denton	123	84,239	13,653	5,524	61,069	1,619	1,550	824
U. Maryland, Baltimore County	124	83,867	59,391	7,192	13,493	1,271	1,947	573
Colorado School of Mines	125	78,517	55,560	2,131	4,255	10,072	1,822	4,677
Cleveland State U.	126	78,189	53,756	956	16,601	2,166	4,515	195
Michigan Technological U.	127	77,927	36,172	456	31,849	6,661	220	2,569
U. Southern Mississippi	128	72,322	42,870	12,374	11,194	4,399	1,417	68

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Indiana U.-Purdue U., Indianapolis	129	71,387	31,622	1,467	28,006	2,214	7,950	128
Texas State U.	130	70,714	26,950	3,850	33,796	792	5,326	0
U. Memphis	131	69,463	18,063	7,776	39,192	998	2,914	520
William & Mary	132	66,763	30,436	3,760	25,542	795	4,561	1,669
Old Dominion U.	133	65,704	30,330	16,403	14,436	990	3,217	328
Northern Arizona U.	134	64,456	39,387	7,342	15,645	523	1,358	201
U. Massachusetts, Boston	135	64,219	27,575	3,325	25,435	2,075	5,618	191
Naval Postgraduate School	136	62,903	51,870	0	10,059	485	108	381
U. Wisconsin-Milwaukee	137	61,069	25,354	18,056	13,648	1,508	1,149	1,354
South Dakota State U.	138	60,939	22,531	16,477	3,143	1,879	3,800	13,109
U. California, Office of the President	139	60,686	217	31,777	28,666	0	20	6
East Carolina U.	140	57,820	20,168	620	28,538	3,363	5,131	0
U. Texas Rio Grande Valley	141	56,702	13,093	7,566	27,680	455	7,653	255
U. Maryland Center for Environmental Science	142	54,560	15,498	27,148	9,503	589	1,563	259
U. Toledo	143	54,100	27,770	1,254	18,793	4,075	2,130	78
Florida Atlantic U.	144	53,845	23,695	4,581	14,711	2,729	5,863	2,266
Ohio U.	145	51,914	15,543	1,398	28,659	4,349	1,452	513
U. South Alabama	146	51,102	21,825	239	24,879	1,511	100	2,548
Kent State U.	147	50,307	15,004	521	32,258	576	1,752	196
U. North Carolina, Charlotte	148	50,050	27,618	1,176	18,128	2,133	908	87
Wright State U.	149	49,825	35,321	5,352	7,833	606	613	100
U. North Texas, Health Science Center	150	47,392	25,917	10,787	7,265	1,463	1,800	160
San Jose State U.	151	47,301	34,102	6,297	4,100	914	1,345	543
Missouri U. of Science and Technology	152	47,001	22,860	230	16,536	4,604	575	2,196
U. California, Merced	153	45,966	20,000	5,108	16,274	558	1,870	2,156
CUNY, City C.	154	45,632	30,106	4,193	8,968	1,068	1,011	286
Texas Tech U., Health Sciences Center	155	44,135	13,043	18,200	8,839	357	1,350	2,346
Portland State U.	156	43,667	31,315	4,178	4,680	1,321	1,637	536
Louisiana State U., Health Sciences Center, New Orleans	157	43,419	31,381	196	5,881	2,109	3,290	562
Boise State U.	158	43,307	26,914	2,265	12,867	378	617	266
U.S. Air Force Academy	159	42,197	33,554	0	7,841	802	0	0
Southern Illinois U., Carbondale	160	41,617	12,735	467	21,176	6,777	462	0
SUNY, Upstate Medical U.	161	41,557	23,940	1,557	9,460	2,141	2,438	2,021
Florida A&M U.	162	41,319	33,136	2,561	4,997	550	75	0
U. West Florida	163	40,051	12,369	681	25,667	741	593	0
CUNY, Hunter C.	164	38,345	26,025	2,622	8,847	229	331	291
U. Puerto Rico, Medical Sciences Campus	165	37,217	27,033	361	6,251	3,551	0	21
U. Missouri, Kansas City	166	36,356	22,320	110	10,283	964	1,054	1,625
North Carolina Agricultural and Technical State U.	167	36,151	22,338	369	12,766	73	311	294

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Air Force Institute of Technology	168	35,584		22,854		0		12,612		118		0		0	
SUNY, Downstate Medical Center	169	33,204		26,454		21		5,396		305		696		332	
San Francisco State U.	170	33,078	i	16,331	i	2,243	i	13,222	i	67	i	1,200	i	15	i
Texas A&M U.-Corpus Christi	171	32,284		13,349		8,436		4,691		716		2,079		3,013	
Illinois State U.	172	32,260		8,719		1,250		21,288		122		871		10	
SUNY, C. of Environmental Science and Forestry	173	29,296		7,809		13,768		6,258		663		552		246	
U. South Dakota	174	29,279		13,034		1,683		13,893		0		669		0	
U. North Carolina, Greensboro	175	28,966		20,447		452		6,039		344		593		1,091	
Rutgers, State U. New Jersey, Newark	176	28,006		16,196		1,460		5,902		778		2,050		1,620	
U. Massachusetts, Dartmouth	177	26,836		6,506		1,644		16,761		1,354		307		264	
California Polytechnic State U., San Luis Obispo	178	26,605		10,178		2,897		9,932		1,280		2,267		51	
Louisiana Tech U.	179	26,585		7,167		2,606		14,576		903		0		1,333	
U. Puerto Rico, Mayaguez	180	26,553		15,842		681		8,960		712		315		43	
Desert Research Institute	181	26,428		15,791		997		4,345		415		3,819		1,061	
U. Minnesota, Duluth	182	26,137		6,454		6,935		11,746		845		81		76	
Rowan U.	183	26,018		15,551		4,401		3,737		818		1,511		0	
Northern Illinois U.	184	25,420		8,030		1,032		15,823		221		254		60	
Louisiana State U., Health Sciences Center, Shreveport	185	25,321		11,452		58		9,902		340		3,569		0	
California State U., Sacramento	186	24,939		5,693		13,108		5,520		143		433		42	
New Mexico Institute of Mining and Technology	187	24,591		22,922		179		345		881		220		44	
Western Michigan U. and Homer Stryker M.D. School of Medicine	188	24,541		13,187		704		7,351		1,778		307		1,214	
Miami U.	189	24,489		10,473		1,446		10,959		957		532		122	
Delaware State U.	190	23,876	i	12,689	i	514	i	10,647	i	26	i	0	i	0	i
U. Nebraska, central administration	191	23,672		23,104		0		568		0		0		0	
U. Akron	192	23,496		10,574		688		6,355		3,898		1,054		927	
U. Puerto Rico, Rio Piedras	193	22,895		14,071		30		8,387		136		202		69	
Texas A&M U.-Kingsville	194	22,745		9,610		3,576		3,711		692		5,110		46	
U. Alaska, Anchorage	195	22,713		15,290		2,385		4,030		446		368		194	
Marshall U.	196	22,250		11,078		1,073		8,169		489		1,441		0	
U. Texas Health Science Center, Tyler	197	21,265		7,732		4,022		5,581		252		3,678		0	
California State U., Northridge	198	21,228		17,261		1,422		1,515		35		995		0	
Eastern Virginia Medical School	199	20,870		15,748		267		2,280		1,244		1,331		0	
Bowling Green State U.	200	18,729		6,397		1,114		10,378		8		767		65	
Prairie View A&M U.	201	18,723		9,249		4,754		4,309		212		199		0	
Southern Illinois U., Edwardsville	202	18,273		3,467		90		13,531		989		168		28	
U. South Florida, Saint Petersburg	203	18,243		5,344		4,603		8,119		2		160		15	
Kennesaw State U.	204	17,954		1,983		121		14,582		606		526		136	

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Montclair State U.	205	17,636	3,782	724	10,659	86	2,363	22
Central Michigan U.	206	17,448	7,450	70	8,581	57	962	328
Morgan State U.	207	17,193	14,101	2,263	336	226	267	0
California State U., Long Beach	208	16,684	12,014	1,908	1,235	617	698	212
U. New Orleans	209	16,594	3,868	686	9,355	549	1,141	995
U. North Carolina, Wilmington	210	16,544	6,783	6,013	2,433	569	671	75
CUNY, Queens C.	211	16,470	12,726	1,054	2,304	43	315	28
U. Nebraska, Omaha	212	16,134	9,996	1,845	3,116	74	941	162
North Carolina Central U.	213	15,833	12,787	116	NA	137	1,194	1,599
Northeast Ohio Medical U.	214	15,758	10,684	51	3,655	0	1,368	0
Tennessee State U.	215	15,377	8,707	467	6,141	44	18	0
U. Missouri, Saint Louis	216	15,352	6,146	40	5,875	91	2,526	674
Jackson State U.	217	15,081	13,662	0	1,226	0	183	10
U. Baltimore	218	15,054	11,748	2,218	NA	6	864	218
Tarleton State U.	219	14,890	4,139	2,779	7,526	334	112	0
South Dakota School of Mines and Technology	220	14,490	10,659	1,173	1,574	699	90	295
Idaho State U.	221	14,478	7,849	2,365	3,535	247	410	72
Langston U.	222	14,409	9,004	4	5,374	27	0	0
Humboldt State U.	223	14,236	2,399	4,147	2,964	212	2,259	2,255
Tennessee Technological U.	224	14,085	6,471	4,174	2,858	299	77	206
CUNY, John Jay C. of Criminal Justice	225	13,939	5,297	1,014	2,968	2,159	1,449	1,052
East Tennessee State U.	226	13,925	7,329	49	2,416	334	3,407	390
Alcorn State U.	227	13,710	7,023	4,519	2,110	56	2	0
U. of the Virgin Islands	228	13,631	11,787	1,700	26	0	118	0
U. North Florida	229	13,573	4,568	1,531	7,209	153	112	0
U. Hawaii, system office	230	13,568	13,367	0	201	0	0	0
California State U., San Marcos	231	13,250	11,547	1,308	272	0	123	0
Missouri State U.	232	13,131	12,310	37	665	115	4	0
U.S. Naval Academy	233	13,123	12,577	0	186	0	360	0
U. Guam	234	13,043	9,722	1,706	1,555	25	0	35
Montana Technological U.	235	12,987	4,322	6,090	1,757	810	0	8
Oakland U.	236	12,949	5,068	57	6,215	313	835	461
Western Washington U.	237	12,823	3,966	706	6,980	82	1,087	2
U.S. Military Academy	238	12,473	8,406	0	2,184	45	191	1,647
Sam Houston State U.	239	12,437	4,764	198	7,379	3	71	22
CUNY, Graduate School of Public Health and Health Policy	240	12,177	8,722	214	1,871	416	951	3
Georgia Southern U.	241	12,166	1,790	625	5,068	4,075	608	0
CUNY, Advanced Science Research Center	242	11,373	9,208	169	1,308	158	198	332
U. Tennessee, Chattanooga	243	10,834	3,915	889	5,073	151	331	475
California State U., San Bernardino	244	10,819	5,886	2,750	2,093	0	90	0
California State U., Los Angeles	245	10,590	8,380	72	1,817	0	321	0
Texas Tech U., Health Sciences Center, El Paso	246	10,421	1,703	2,932	5,211	257	318	0
James Madison U.	247	10,247	2,609	373	6,365	173	669	58

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Rhode Island C.	248	10,094		4,128		5,448		93		0		425		0	
Virginia State U.	249	10,014		5,642		1,431		2,061		0		879		1	
U. Arkansas, Little Rock	250	9,711		7,289		259		1,812		31		320		0	
William Paterson U.	251	9,603		1,896		0		7,575		1		131		0	
Salisbury U.	252	9,496		2,413		3,638		3,359		11		75		0	
Ball State U.	253	9,429		2,397		453		5,703		605		271		0	
Eastern Michigan U.	254	9,088		2,598		63		5,950		61		350		66	
California State U., East Bay	255	9,072		2,348		992		5,434		77		221		0	
California State U., Fresno	256	8,856		3,117		2,431		1,949		455		904		0	
U. Michigan, Dearborn	257	8,777		2,264		16		3,984		2,262		224		27	
Alabama A&M U.	258	8,749		5,643		2,541		448		117		0		0	
Middle Tennessee State U.	259	8,697		3,062		421		4,098		345		771		0	
Arkansas State U., Jonesboro	260	8,640		4,712		2,987		746		187		1		7	
U. Arkansas, Pine Bluff	261	8,540		4,393		1,748		2,309		0		90		0	
Oklahoma State U., Center for Health Sciences	262	8,378		2,618		147		5,486		92		35		0	
Western Kentucky U.	263	8,241		3,265		478		4,250		153		83		12	
U. Maryland, Eastern Shore	264	8,092		8,084		0		0		8		0		0	
Kentucky State U.	265	7,963		4,456		3,294		0		142		71		0	
U. Oklahoma, Tulsa	266	7,483		1,953		1,060		2,936		115		891		528	
California State Polytechnic U., Pomona	267	7,396		5,514		821		509		344		208		0	
Norfolk State U.	268	7,153		7,148		0		5		0		0		0	
U. Washington, Bothell	269	7,107		2,815		42		1,045		129		3,058		18	
CUNY, Brooklyn C.	270	7,074		4,651		198		1,489		72		645		19	
California State U., Bakersfield	271	7,053		4,486		150		2,306		38		22		51	
U. Hawaii, Hilo	272	6,992		5,274		102		1,160		179		209		68	
Grand Valley State U.	273	6,792		1,831		323		3,475		24		641		498	
Florida Gulf Coast U.	274	6,671		5,304		814		103		104		346		0	
Indiana U. Pennsylvania	275	6,531		1,309		147		4,647		62		339		27	
West Chester U. Pennsylvania	276	6,414		724		62		5,277		28		175		148	
West Texas A&M U.	277	6,220		1,542		2,440		1,327		805		67		39	
Central State U.	278	6,107		3,097		1,861		1,149		0		0		0	
Naval War C.	279	5,944		5,944		0		0		0		0		0	
California State U., Fullerton	280	5,929		4,121		262		1,163		49		334		0	
California State U., Monterey Bay	281	5,874		3,889		1,042		683		8		252		0	
Purdue U., Northwest	282	5,839		1,996		786		1,549		759		147		602	
U. Central Oklahoma	283	5,788	i	1,444	i	624	i	3,646	i	71	i	3	i	0	i
Winston-Salem State U.	284	5,781		4,498		57		NA		0		818		408	
Lincoln U., Jefferson City	285	5,777		3,636		2,141		NA		0		0		0	
West Virginia State U.	286	5,775		3,993		1,592		159		31		0		0	
C. Charleston	287	5,728		3,087		275		1,727		7		574		58	
U. Southern Maine	288	5,635		2,231		3,013		245		0		130		16	
U. Colorado Colorado Springs	289	5,557		3,508		694		486		744		114		11	
Southern Connecticut State U.	290	5,413		1,026		305		3,649		53		188		192	
U. Massachusetts, central office	291	5,225		488		3,533		285		242		602		75	

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Fort Valley State U.	292	4,921		4,806		0		115		0		0		0	
Appalachian State U.	293	4,894		1,469		199		2,568		112		485		61	
U. North Carolina, Asheville	294	4,789		2,405		349		435		2		1,598		0	
CUNY, Graduate Center	295	4,787		2,561		78		169		0		825		1,154	
Texas Southern U.	296	4,782		2,941		1,048		789		0		4		0	
U. Wisconsin-Stevens Point	297	4,764		2,193		932		1,044		3		341		251	
U. of the District of Columbia	298	4,590		2,664		0		1,922		0		0		4	
National Defense U.	299	4,583		4,583		0		0		0		0		0	
Southern U. and A&M C., Agricultural Research and Extension Center	300	4,475		2,085		2,338		52		0		0		0	
Dakota State U.	301	4,412		3,957		34		220		192		9		0	
Lamar U.	302	4,327		2,146		1,309		136		281		455		0	
California State U., Chico	303	4,305		2,520		747		491		16		148		383	
Oregon Institute of Technology	304	4,267		326		2,119		561		976		285		0	
Stockton U.	305	4,236		872		2,235		1,008		0		121		0	
Texas A&M U.-Commerce	306	4,166		1,226		313		2,252		46		205		124	
CUNY, Lehman C.	307	4,154		3,197		0		500		82		44		331	
Texas Woman's U.	308	4,135		1,700		699		1,058		59		619		0	
Youngstown State U.	309	4,120		3,308		128		560		107		17		0	
Rutgers, State U. New Jersey, Camden	310	3,950		1,952		91		1,136		166		603		2	
U. North Carolina, general administration	311	3,942		572		3,370		0		0		0		0	
Southern U. and A&M C., Baton Rouge	312	3,849		2,996		23		441		389		0		0	
South Carolina State U.	313	3,796	i	3,796	i	NA		NA		NA		NA		NA	
U. Northern Colorado	314	3,738		1,853		262		1,267		8		348		0	
CUNY, C. Staten Island	315	3,682		2,295		603		483		2		84		215	
Stephen F. Austin State U.	316	3,672		1,257		1,316		703		32		206		158	
Towson U.	317	3,612		2,010		126		1,185		15		156		120	
U. Washington, Tacoma	318	3,504		3,075		120		207		0		102		0	
SUNY, C. of Optometry	319	3,477		1,688		0		524		1,233		10		22	
U. Central Arkansas	320	3,455		1,421		865		1,054		50		65		0	
U. Illinois, Springfield	321	3,406		976		1,352		996		26		56		0	
California State U., Maritime Academy	322	3,202		621		151		85		2,345		0		0	
Colorado State U., Pueblo	323	3,104		1,161		1,791		152		0		0		0	
Texas A&M International U.	324	3,067		986		707		647		63		637		27	
St. Cloud State U.	325	3,056		459		366		1,358		536		337		0	
Murray State U.	326	3,019		1,929		37		1,007		46		0		0	
U. Northern Iowa	327	2,970		1,881		343		702		4		40		0	
Austin Peay State U.	328	2,833		475		1,329		908		1		106		14	
Fayetteville State U.	329	2,797		1,008		421		1,185		123		60		0	
U. Wisconsin-La Crosse	330	2,795		817		848		434		455		234		7	
Minnesota State U., Mankato	331	2,754		525		121		1,071		0		885		152	
Northwest Indian C.	332	2,708	i	2,497	i	0	i	36	i	0	i	175	i	0	i
Western Carolina U.	333	2,696		1,707		228		479		121		161		0	
Northern Kentucky U.	334	2,693		1,462		86		854		5		286		0	

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Central Washington U.	335	2,674	1,701	242	336	102	211	82
U. Nebraska, Kearney	336	2,640	1,259	330	961	39	17	34
Christopher Newport U.	337	2,608	1,365	17	903	108	98	117
U. South Carolina, Aiken	338	2,590	2,328	0	255	0	7	0
Alabama State U.	339	2,582	2,582	0	0	0	0	0
Western Illinois U.	340	2,461	1,801	168	254	217	0	21
Grambling State U.	341	2,427	787	560	1,080	0	0	0
CUNY, Baruch C.	342	2,396	1,470	14	434	0	367	111
U. Louisiana, Monroe	343	2,362	2,025	210	69	22	36	0
Saginaw Valley State U.	344	2,343	1,809	0	398	5	115	16
Framingham State U.	345	2,317	179	0	0	78	2,060	0
U. Wisconsin-Superior	346	2,301	1,382	174	563	66	10	106
U. Houston-Downtown	347	2,299	1,392	120	280	0	507	0
Eastern Washington U.	348	2,282	1,153	931	NA	14	134	50
Purdue U., Fort Wayne	349	2,264	589	408	713	70	54	430
Southeastern Louisiana U.	350	2,258	884	213	913	61	187	0
SUNY, Buffalo State	351	2,253	1,241	619	293	35	49	16
Winthrop U.	352	2,217	1,563	293	220	34	107	0
Kean U.	353	2,201	775	447	885	29	26	39
Pittsburg State U.	354	2,173	477	570	NA	1,085	41	0
U. South Florida, Sarasota-Manatee	355	2,150	10	0	2,096	0	44	0
CUNY, New York City C. of Technology	356	2,130	1,585	0	136	404	5	0
U. Texas of the Permian Basin	357	2,105	757	32	562	0	754	0
Sul Ross State U.	358	2,068	481	126	119	25	785	532
California State U., Dominguez Hills	359	2,065	1,433	32	600	0	0	0
Northeastern Illinois U.	360	2,018	2,018	0	0	0	0	0
U. Texas, Tyler	361	2,007	774	225	631	207	96	74
U. Wisconsin-Green Bay	362	1,982	890	500	207	41	172	172
U. Puerto Rico, Cayey	363	1,974	1,210	0	639	13	112	0
Bowie State U.	364	1,967	1,967	0	0	0	0	0
Northwestern State U. Louisiana	365	1,940	598	1,105	237	0	0	0
U. North Georgia	366	1,905	542	40	858	7	458	0
Coastal Carolina U.	367	1,903	1,211	119	61	0	512	0
Morehead State U.	368	1,883	1,674	50	133	0	26	0
Pennsylvania State U., Harrisburg	369	1,866	451	67	1,277	25	46	0
California State U., Stanislaus	370	1,843	1,284	73	79	399	8	0
Savannah State U.	371	1,804	1,804	0	0	0	0	0
Eastern Connecticut State U.	372	1,799	177	1	1,621	0	0	0
U. Wisconsin-Oshkosh	373	1,777 i	1,336 i	0 i	0 i	0 i	0 i	441 i
Pennsylvania State U., Behrend	374	1,743	543	7	0	718	475	0
SUNY, C. Brockport	375	1,719	781	343	574	20	1	0
CUNY, system office	376	1,704	884	164	163	26	105	362
Troy U.	377	1,692	1,591	0	66	16	19	0

TABLE 36

Higher education R&D expenditures at public institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, York C.	378	1,691	1,513	0	156	0	22	0
SUNY, Geneseo	379	1,642	950	12	675	0	5	0
Central Connecticut State U.	380	1,572	901	264	407	0	0	0
Sonoma State U.	381	1,545	936	310	247	16	36	0
SUNY, Oswego	382	1,534	492	61	945	8	15	13
Northern Michigan U.	383	1,523	446	0	876	15	10	176
Black Hills State U.	384	1,499	1,287	98	114	0	0	0
California State U., Channel Islands	385	1,497	553	574	339	31	0	0
Elizabeth City State U.	386	1,473	1,455	11	NA	0	0	7
Indiana State U.	387	1,471	949	241	204	31	46	0
C. New Jersey	388	1,464	951	32	153	49	279	0
U. Puerto Rico, Humacao	389	1,456	1,279	0	177	0	0	0
SUNY, C. Plattsburgh	390	1,452	950	37	353	0	9	103
U. of Mary Washington	391	1,393	660	20	594	0	90	29
Fort Lewis C.	392	1,370	1,228	51	79	12	0	0
U. Houston-Clear Lake	393	1,363	632	513	33	102	83	0
U. Wisconsin-Eau Claire	394	1,318	647	292	219	59	99	2
West Virginia School of Osteopathic Medicine	395	1,311	419	8	884	0	0	0
U. Alaska, Southeast	396	1,264	1,098	65	76	0	25	0
U. Michigan, Flint	397	1,247	276	3	588	366	8	6
Jacksonville State U.	398	1,244	1,216	0	28	0	0	0
Fort Hays State U.	399	1,172	764	24	168	209	7	0
U. Wisconsin-River Falls	400	1,107	488	408	7	152	0	52
U. Wisconsin-Platteville	401	1,104 i	336 i	285 i	189 i	256 i	29 i	9 i
Florida Polytechnic U.	402	1,091	252	289	479	46	5	20
New Mexico Highlands U.	403	1,090	1,034	0	0	0	56	0
Keene State C.	404	1,063	1,043	0	19	0	1	0
Albany State U.	405	1,060	836	116	0	108	0	0
Citadel Military C. South Carolina	406	1,012	736	0	135	0	11	130
Eastern Kentucky U.	407	1,010	554	66	309	4	77	0
U. Minnesota, Morris	408	1,004	213	138	647	0	6	0
Midwestern State U.	409	891	599	36	201	0	55	0
CUNY, Medgar Evers C.	410	882	588	0	245	0	48	1
Salish Kootenai C.	411	807	802	0	0	0	5	0
Weber State U.	412	676	424	159	33	30	30	0
Dine C.	413	347	347	0	0	0	0	0
New Jersey City U.	414	262	223	0	39	0	0	0
Columbus State U.	415	261	93	0	105	58	5	0

i = imputed. NA = not available; data were not provided by institution.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
All institutions	-	29,632,422	17,651,552	392,139	6,336,865	2,008,984	2,464,120	778,762
Johns Hopkins U.[a]	1	3,110,494	2,682,410	5,707	157,227	105,906	155,728	3,516
U. Pennsylvania	2	1,579,364	721,308	19,955	544,997	176,969	112,832	3,303
Harvard U.	3	1,239,983	605,603	2,351	391,127	49,561	171,566	19,775
Stanford U.	4	1,203,950	751,414	26,257	132,235	114,967	168,843	10,234
Duke U.	5	1,196,638	707,746	938	151,876	205,719	104,685	25,674
Cornell U.	6	1,190,063	562,021	92,178	232,628	56,706	119,570	126,960
Yale U.	7	1,094,135	585,170	5,102	339,695	72,714	86,548	4,906
Columbia U. in the City of New York	8	1,032,909	762,289	7,250	78,278	77,105	105,442	2,545
Massachusetts Institute of Technology	9	987,968	488,741	2,104	119,003	200,722	99,438	77,960
New York U.	10	947,293	448,850	22,203	222,650	51,010	85,710	116,870
U. Southern California	11	941,198	562,120	13,691	197,247	43,425	50,026	74,689
Washington U., Saint Louis	12	920,215	559,882	890	172,213	93,981	91,685	1,564
Northwestern U.	13	874,671	531,654	12	233,695	52,440	48,087	8,783
Vanderbilt U. and Vanderbilt U. Medical Center	14	824,803	514,299	2,527	197,502	70,229	36,434	3,812
Emory U.	15	808,792	452,636	1,031	230,877	54,236	67,600	2,412
Icahn School of Medicine at Mount Sinai	16	747,014	480,452	8,270	135,617	61,137	53,691	7,847
Baylor C. of Medicine	17	685,641	315,101	30,591	222,123	24,991	92,835	0
Boston U.	18	583,267	339,172	517	157,935	22,430	40,325	22,888
U. Chicago	19	458,891	352,447	224	32,978	36,343	34,865	2,034
California Institute of Technology	20	449,651	316,519	1,394	48,754	18,366	36,500	28,118
Scripps Research Institute	21	444,964	243,502	4,503	135,483	22,386	39,090	0
Case Western Reserve U.	22	439,778	357,589	805	48,786	5,185	23,274	4,139
U. Rochester	23	397,211	296,241	2,110	46,412	30,271	16,366	5,811
Princeton U.	24	396,502	203,259	300	78,989	19,932	55,398	38,624
Carnegie Mellon U.	25	386,996	217,625	2,735	115,615	36,121	9,210	5,690
U. Miami	26	381,410	224,184	10,841	75,755	34,249	35,005	1,376
Rockefeller U.	27	356,217	86,280	533	230,148	5,110	33,853	293
Dartmouth C. and Dartmouth Hitchcock Medical Center	28	326,349	142,219	1,250	150,097	4,359	21,710	6,714
Albert Einstein C. of Medicine	29	288,654	204,635	3,150	65,723	4,286	10,860	0
George Washington U.	30	270,369	157,533	1,740	66,453	4,596	28,958	11,089
Brown U.	31	266,127	185,676	31	56,188	3,634	14,737	5,861
Medical C. Wisconsin	32	264,325	128,783	440	81,608	24,973	22,878	5,643
Georgetown U.	33	258,659	98,682	1,613	66,181	18,307	48,919	24,957
Wake Forest U.	34	244,643	166,596	17,361	24,365	13,228	15,449	7,644
Woods Hole Oceanographic Institution	35	227,573	191,186	1,653	16,741	2,223	6,872	8,898
U. Notre Dame	36	227,535	104,030	530	80,244	6,212	18,563	17,956
Tufts U.	37	216,241	148,320	1,634	23,231	10,162	28,558	4,336
Tulane U.	38	204,430	107,290	5,103	51,577	5,589	20,228	14,643
Northeastern U.	39	200,068	136,273	3,767	41,810	9,060	8,568	590
Rice U.	40	198,681	88,768	7,104	59,140	8,851	30,199	4,619
Thomas Jefferson U.	41	171,377	74,676	3,330	53,798	20,915	9,537	9,121
U. Dayton	42	163,718	154,101	1,358	2,195	5,439	555	70

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Syracuse U.	43	149,652	31,861		4,812		97,654		4,516		10,673		136	
Drexel U.	44	143,123	82,576		4,650		38,742		3,203		7,513		6,439	
Cold Spring Harbor Laboratory	45	115,198	62,215		32		32,295		1,222		19,434		0	
Rensselaer Polytechnic Institute	46	107,623	52,150		4,959		28,841		15,594		6,079		0	
Rush U.	47	94,438	65,343		1,886		8,712		12,732		5,765		0	
American U.	48	71,839	16,123		622		43,461		513		10,486		634	
Saint Louis U.	49	69,528	34,419		1,202		21,359		4,362		7,975		211	
Brandeis U.	50	63,201	41,440		1,028		10,612		294		8,699		1,128	
Boston C.	51	63,063	31,038		1,801		13,420		872		15,173		759	
Van Andel Research Institute	52	58,982	18,538		0		28,709		409		2,566		8,760	
Rochester Institute of Technology	53	57,777	28,092		9,210		15,970		2,392		1,192		921	
Mercer U.	54	49,116	31,572		62		9,247		5,452		191		2,592	
Howard U.	55	44,933	29,256		1,353		10,860		2,721		743		0	
Stevens Institute of Technology	56	44,747	33,461		1,499		7,443		1,356		909		79	
Worcester Polytechnic Institute	57	43,092	26,074		1,121		9,165		4,003		1,484		1,245	
Southern Methodist U.	58	43,081	17,752		877		20,640		2,250		1,562		0	
U. Denver	59	41,349	24,753		964		7,145		1,521		6,270		696	
Baylor U.	60	39,765	8,851		1,153		21,821		1,395		4,866		1,679	
Loyola U., Chicago	61	39,365	24,018		164		7,961		3,384		2,860		978	
Brigham Young U., Provo	62	38,569	24,632		1,128		6,386		3,273		2,718		432	
Lehigh U.	63	38,064	26,816		1,888		8,181		758		378		43	
Marquette U.	64	37,136	13,187		539		15,058		1,027		2,162		5,163	
Morehouse School of Medicine	65	29,813	22,500		273		5,504		0		1,536		0	
Illinois Institute of Technology	66	29,122	24,244		36		1,739		1,562		948		593	
Chapman U.	67	26,660	7,850		1,168		11,717		616		5,301		8	
Nova Southeastern U.	68	26,035	10,452		2,652		10,764		1,309		610		248	
Villanova U.	69	25,505	4,921		1,386		17,542		350		1,056		250	
Catholic U. of America	70	25,221	22,503		118		1,429		411		760		0	
Loma Linda U.	71	25,077	i	17,457	i	754	i	3,382	i	1,857	i	1,526	i	101	i
Albany Medical C.	72	23,510	12,940		0		4,069		3,954		1,003		1,544	
Teachers C., Columbia U.	73	22,630	7,614		265		NA		1,038		10,766		2,947	
Tuskegee U.	74	20,973	15,122		2,624		2,706		0		0		521	
Fordham U.	75	20,456	3,831		333		14,154		58		1,118		962	
Creighton U.	76	20,339	7,583		2,929		6,845		1,207		817		958	
New York Medical C.	77	20,137	12,106		1,319		243		4,039		1,812		618	
U. Tulsa	78	18,787	4,697		720		3,104		9,732		427		107	
Florida Institute of Technology	79	18,271	10,999		2,028		3,191		922		390		741	
Embry-Riddle Aeronautical U.	80	17,786	11,542		29		1,183		3,151		460		1,421	
Duquesne U.	81	17,485	4,981		798		9,566		267		1,873		0	
Texas Christian U.	82	15,326	3,168		386		10,010		1,493		166		103	
Clarkson U.	83	15,104	7,095		1,394		4,425		1,483		490		217	
Rosalind Franklin U. of Medicine and Science	84	14,601	8,504		56		4,474		958		609		0	
Long Island U.	85	13,997	1,349		0		12,135		234		238		41	
Meharry Medical C.	86	13,870	12,573		0		315		3		979		0	
Charles R. Drew U. of Medicine and Science	87	13,682	9,863		311		3,202		0		306		0	
Ponce Health Sciences U.	88	13,566	11,228		220		NA		0		0		2,118	

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
New School	89	13,186	1,050		142		3,503		144		7,022		1,325	
Bryn Mawr C.	90	11,575	1,531		0		9,742		27		275		0	
Hampton U.	91	11,402	11,278		0		124		0		0		0	
Xavier U. Louisiana	92	11,387	9,680		775		879		0		53		0	
Midwestern U.	93	10,479	936		50		8,776		481		236		0	
Clark U.	94	10,277	3,350		93		5,338		12		1,456		28	
St. Edward's U.	95	9,619	7,700		900		925		14		30		50	
Claremont Graduate U.	96	9,403	809		408		3,440		657		4,046		43	
U. San Diego	97	8,607	2,398		169		5,418		0		436		186	
Clark Atlanta U.	98	8,452	5,324		0		3,016		47		65		0	
Wesleyan U.	99	8,300	4,305		31		3,137		97		651		79	
Wellesley C.	100	8,088	4,441		49		NA		158		2,497		943	
Edward Via C. of Osteopathic Medicine	101	7,475	566		3		6,443		150		313		0	
Loyola Marymount U.	102	7,193	1,105		921		4,593		3		571		0	
Azusa Pacific U.	103	7,068	128		95		6,704		2		139		0	
U. New England	104	6,886	5,064		1		1,698		26		92		5	
DePaul U.	105	6,557	5,156		0		925		0		450		26	
Western U. of Health Sciences	106	5,899	4,486		522		29		635		165		62	
Toyota Technological Institute, Chicago	107	5,887	3,038		0		1,513		1,230		106		0	
Claremont McKenna C.	108	5,846	771		52		4,512		0		511		0	
Pacific U.	109	5,842	2,596		289		1,961		447		549		0	
Grinnell C.	110	5,826	644		0		4,328		0		309		545	
Seton Hall U.	111	5,718	2,725		1,993		88		210		702		0	
Bucknell U.	112	5,339	i	1,693	i	76	i	3,023	i	202	i	335	i	10	i
Reed C.	113	5,155	1,806		33		2,897		0		303		116	
Des Moines U.	114	5,021	449		255		4,068		3		246		0	
Williams C.	115	4,924	i	1,086	i	0	i	1,663	i	0	i	137	i	2,038	i
Amherst C.	116	4,906	1,775		0		2,230		0		10		891	
U. of Health Sciences and Pharmacy in St. Louis	117	4,835	3,767		0		547		431		90		0	
Morehouse C.	118	4,825	4,825		0		0		0		0		0	
U. Detroit Mercy	119	4,786	4,226		0		524		13		23		0	
Smith C.	120	4,685	2,650		0		1,401		68		566		0	
Gallaudet U.	121	4,599	1,841		0		2,414		0		326		18	
Haverford C.	122	4,473	2,680		0		1,168		0		163		462	
Roseman U. of Health Sciences	123	4,380	56		0		4,099		216		9		0	
Pace U.	124	4,272	2,997		0		1,103		7		147		18	
U. Central del Caribe	125	3,931	2,743		267		846		0		0		75	
Fisk U.	126	3,904	3,811		15		0		16		62		0	
U. New Haven	127	3,843	1,440		473		363		390		1,170		7	
Hope C.	128	3,822	1,155		0		1,492		0		1,119		56	
Albany C. of Pharmacy and Health Sciences	129	3,765	1,938		0		822		841		137		27	
U. of the Sciences Philadelphia	130	3,761	1,126		234		1,042		850		509		0	
Barnard C.	131	3,748	2,800		0		467		60		421		0	

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	132	3,737	342	0	3,362	0	33	0
Carleton C.	133	3,732	1,236	17	2,052	0	427	0
Franklin and Marshall C.	134	3,623	1,202	204	1,747	231	73	166
New York Institute of Technology	135	3,580	1,542	153	1,592	0	293	0
Touro U.	136	3,551	1,558	63	1,876	53	1	0
MGH Institute of Health Professions	137	3,549	3,014	0	20	0	515	0
Swarthmore C.	138	3,544	1,041	0	2,278	0	225	0
Trinity U.	139	3,472	1,207	17	1,280	0	886	82
Philadelphia C. of Osteopathic Medicine	140	3,360	422	0	2,415	0	523	0
Lewis and Clark C.	141	3,350	1,268	0	1,527	0	555	0
High Tech High Graduate School of Ed.	142	3,304	0	0	0	0	3,304	0
St. John's U., New York	143	3,282	1,805	0	789	147	374	167
Milwaukee School of Engineering	144	3,190	613	0	0	2,575	2	0
Saint Joseph's U.	145	3,150	1,047	812	1,084	123	84	0
Harvey Mudd C.	146	2,916	1,748	0	926	26	93	123
Colgate U.	147	2,913	918	0	1,768	12	215	0
Pomona C.	148	2,855	1,123	12	1,564	0	156	0
Alfred U.	149	2,780	947	857	662	314	0	0
Yeshiva U.	150	2,763	772	0	1,407	0	239	345
Spelman C.	151	2,750	2,136	0	477	137	0	0
Bowdoin C.	152	2,719	1,862	33	707	1	116	0
Santa Clara U.	153	2,682	1,522	311	NA	283	566	0
U. of St. Thomas (MN)	154	2,679	450	212	801	550	555	111
Occidental C.	155	2,657	1,567	279	NA	303	508	0
Dillard U.	156	2,523	1,200	87	771	0	98	367
Johnson C. Smith U.	157	2,472	2,230	132	0	10	100	0
U. Richmond	158	2,469	1,628	0	613	0	228	0
Skidmore C.	159	2,412	1,827	0	441	0	144	0
Babson C.	160	2,352	14	0	1,007	358	683	290
Bates C.	161	2,303	1,885	0	212	0	104	102
Colorado C.	162	2,291	196	290	917	0	888	0
Davidson C.	163	2,263	1,411	0	413	10	408	21
U. San Francisco	164	2,161	148	118	1,372	0	523	0
Keck Graduate Institute	165	2,152 i	1,113 i	0 i	687 i	142 i	35 i	175 i
Hobart and William Smith Colleges	166	2,114	1,072	436	384	0	85	137
Suffolk U.	167	2,106	844	0	1,010	0	252	0
Tougaloo C.	168	2,102	2,102	0	0	0	0	0
Furman U.	169	2,101	847	10	1,099	0	38	107
Kettering U.	170	2,081	568	8	832	591	63	19
Seattle U.	171	2,060	1,303	62	160	1	334	200
U. Ana G. Mendez, Gurabo	172	2,049	946	0	1,103	0	0	0
Mount Holyoke C.	173	2,016	1,442	0	227	0	347	0
Pepperdine U.	174	2,006	693	31	623	0	634	25

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Erikson Institute	175	1,992		1,006		0		96		0		890		0	
Elon U.	176	1,968		106		0		1,828		0		34		0	
Claflin U.	177	1,910		1,907		0		0		0		3		0	
Palmer C. of Chiropractic, Davenport	178	1,900		1,400		0		500		0		0		0	
Liberty U.	179	1,894		886		0		513		316		146		33	
Hamilton C.	180	1,869		144		0		1,270		0		397		58	
Mercyhurst U.	181	1,850	i	690	i	568	i	592	i	0	i	0	i	0	i
Hawaii Pacific U.	182	1,796		1,699		52		27		0		4		14	
Macalester C.	183	1,755		647		84		794		0		230		0	
Monmouth U.	184	1,729		110		1,149		70		20		309		71	
Middlebury C.	185	1,720		1,546		0		132		1		41		0	
U. of the Pacific	186	1,713		1,375		96		NA		13		229		0	
La Sierra U.	187	1,647		618		0		531		0		498		0	
Connecticut C.	188	1,598		483		0		1,071		0		44		0	
Vassar C.	189	1,568		1,055		0		306		0		182		25	
Willamette U.	190	1,546		401		1		768		0		376		0	
Mills C.	191	1,541		1,341		24		70		0		90		16	
Colby C.	192	1,536		809		0		388		0		0		339	
Roger Williams U.	193	1,531		1,045		80		301		17		88		0	
Lawrence Technological U.	194	1,521		405		174		64		212		666		0	
Calvin U.	195	1,497	i	888	i	30	i	5	i	92	i	176	i	306	i
U. of the Incarnate Word	196	1,469		869		130		155		42		268		5	
Hofstra U.	197	1,445		997		231		96		3		64		54	
U. Hartford	198	1,436		854		0		568		14		0		0	
National U. of Natural Medicine	199	1,428		912		0		333		160		0		23	
Trinity C., Hartford	199	1,428		1,019		0		353		2		54		0	
Franklin W. Olin C. of Engineering	201	1,404		293		0		530		27		499		55	
Lafayette C.	202	1,390		755		14		522		1		53		45	
Marshall B. Ketchum U.	203	1,357	i	323	i	0	i	685	i	349	i	0	i	0	i
Wheaton C., Wheaton	204	1,322		324		0		309		1		688		0	
Manhattan C.	205	1,307		398		174		503		232		0		0	
Alaska Pacific U.	206	1,261		148		0		0		1,100		10		3	
Fairfield U.	207	1,210		365		0		255		0		590		0	
Ithaca C.	208	1,199		981		0		170		0		13		35	
Biola U.	209	1,187	i	662	i	18	i	300	i	79	i	97	i	31	i
Oberlin C.	210	1,182		743		0		360		73		6		0	
New England C. of Optometry	211	1,150		785		0		166		193		6		0	
Albion C.	212	1,132		272		0		860		0		0		0	
Saint John's U., Collegeville	213	1,130	i	0	i	0	i	1,130	i	0	i	0	i	0	i
Heidelberg U.	214	1,125		188		824		48		53		12		0	
Niagara U.	215	1,124		24		258		352		0		490		0	
Doane U.	216	1,123	i	958	i	0	i	148	i	0	i	17	i	0	i
Providence C.	217	1,092		913		0		127		0		52		0	
C. Wooster	218	1,076		283		0		703		0		90		0	
C. of Saint Benedict	219	1,069	i	43	i	0	i	1,026	i	0	i	0	i	0	i
Union C., Schenectady	220	1,062		462		4		483		24		58		31	
Andrews U.	221	1,033		263		2		565		0		203		0	

TABLE 37

Higher education R&D expenditures at private institutions, ranked by all R&D expenditures, by source of funds: FY 2020

(Dollars in thousands)

Institution	Rank	All R&D expenditures		Source of funds													
				Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
St. Olaf C.	222	1,032		230		0		652		0		150		0	
Lipscomb U.	223	1,000	i	557	i	15	i	247	i	66	i	86	i	29	i
Rhode Island School of Design	224	975	i	236	i	42	i	426	i	221	i	50	i	0	i
Saint Michael's C.	225	957		775		0		182		0		0		0	
Dickinson C.	226	929		222		87		325		49		29		217	
Emerson C.	227	919		84		171		279		27		202		156	
Gettysburg C.	228	913		320		0		144		46		227		176	
Kenyon C.	229	908		714		0		146		0		48		0	
U. Puget Sound	230	895		401		0		238		0		206		50	
Whitman C.	231	865		558		0		246		0		61		0	
Bradley U.	232	851		235		86		207		301		0		22	
Stonehill C.	233	833		674		0		159		0		0		0	
La Salle U.	234	818		14		0		804		0		0		0	
Polytechnic U. Puerto Rico	235	813		813		0		NA		0		0		0	
Benedict C.	236	649		635		3		0		0		11		0	
U. Ana G. Mendez, Carolina	237	647		520		0		127		0		0		0	
California Lutheran U.	238	630		271		0		359		0		0		0	
St. Bonaventure U.	239	585		265		0		136		8		12		164	
Merrimack C.	240	503		306		0		72		0		125		0	

i = imputed. NA = not available; data were not provided by institution.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

Note(s):
Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	2,192,394	2,397,782	2,639,075	2,923,149	1,497,681	1,630,119	1,794,620	2,000,937
Johns Hopkins U.[a]	1	154,963 i	161,884 i	199,773 i	226,696 i	147,666	153,327	189,011	216,738
Carnegie Mellon U.	2	136,928	141,298	171,110	192,119	91,953	87,606	105,289	119,057
Georgia Institute of Technology	3	115,716	141,966	164,657	185,400	100,392	122,905	145,305	162,577
U. Texas, Austin	4	82,102	73,386	66,125	139,290	73,292	63,389	56,350	128,322
U. Southern California	5	108,804	119,500	124,944	121,116	98,323	110,462	118,059	115,564
Massachusetts Institute of Technology	6	78,623	85,483	96,682	111,779	38,367	35,678	43,216	54,491
U. Illinois, Urbana-Champaign	7	102,612	96,170	106,430	95,988	70,877	63,414	71,231	64,385
Pennsylvania State U., University Park and Hershey Medical Center	8	36,680	55,939	69,638	89,490	30,718	47,938	56,256	76,419
U. Maryland[b]	9	na	na	47,841	50,541	na	na	32,963	34,576
Indiana U., Bloomington	10	26,844	25,804	36,195	43,034	20,995	14,419	21,764	26,097
U. Utah	11	0	42,025 i	40,967 i	37,159 i	0	29,213	25,364	23,621
U. Alabama, Huntsville	12	27,191	26,973	29,177	36,636	25,507	25,492	28,023	35,309
U. Massachusetts, Amherst	13	21,126	25,106	27,702	31,199	14,982	15,650	16,035	16,804
Cornell U.	14	23,220	29,162	29,330	31,173	15,995	19,565	19,491	18,829
Virginia Polytechnic Institute and State U.	15	33,035	27,614	23,536	30,405	10,386	10,746	9,830	11,637
U. California, San Diego	16	28,217	35,158	28,302	30,370	14,740	14,788	13,478	16,179
U. Central Florida	17	26,325	26,571	29,865	29,423	16,567	18,041	18,069	18,095
U. Wisconsin-Madison	18	20,155	22,024	20,372	28,241	14,243	16,499	13,735	15,975
U. Washington, Seattle	19	29,077	23,644	24,969	27,986	12,875	12,642	16,374	18,140
Purdue U., West Lafayette	20	21,494	23,394	23,177	27,886	13,441	14,513	14,972	20,261
U. North Carolina, Chapel Hill	21	14,473	18,483	23,146	26,765	12,077	13,884	19,037	20,870
Stanford U.	22	29,276	25,298	24,575	26,512	17,519	13,481	12,782	15,368
U. Pennsylvania	23	20,149	23,703	26,968	26,318	13,037	15,095	16,242	15,361
U. Virginia, Charlottesville	24	8,054	15,473	20,017	26,286	6,603	9,039	14,945	20,924
Columbia U. in the City of New York	25	20,479	22,654	24,725	25,101	18,299	20,584	22,935	22,817
U. Chicago	26	25,014	25,407	26,606	24,422	23,149	23,594	25,298	23,454
Princeton U.	27	15,501	15,110	19,725	24,160	9,503	8,853	10,723	14,612
George Mason U.	28	12,248	18,745	31,219	23,969	11,045	17,583	28,895	21,728
U. Minnesota, Twin Cities	29	21,511	21,810	22,227	22,996	11,168	8,279	9,064	9,283
Ohio State U.	30	21,784	20,331	23,393	22,869	10,196	9,770	9,151	8,892
Arizona State U.	31	16,328	18,967	21,871	22,231	8,646	11,012	11,734	15,176

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. California, Irvine	32	14,736	15,705	19,463	21,573	8,229	8,310	10,548	10,957
Northeastern U.	33	15,835	19,212	19,362	21,118	13,165	15,921	15,979	17,176
SUNY, U. Buffalo	34	16,352	16,731	15,899	18,747	8,512	9,566	9,268	10,894
Georgetown U.	35	2,941	3,812	3,836	18,620	1,779	1,806	2,137	3,947
Texas A&M U., College Station and Health Science Center	36	19,007	21,960	21,800	18,504	7,431	9,668	10,724	9,988
U. California, Los Angeles	37	13,663	14,698	15,867	17,480	7,762	7,383	8,724	10,302
Florida International U.	38	10,302	14,645	14,911	16,175	6,385	11,033	10,990	9,863
North Carolina State U.	39	11,083	11,537	14,614	16,119	8,160	8,169	10,351	11,737
Michigan State U.	40	11,077	14,890	19,013	15,783	5,119	7,598	8,474	7,631
Brown U.	41	10,670	12,539	14,727	15,695	6,810	8,359	10,694	10,937
U. Colorado Boulder	42	9,179	12,028	14,909	15,627	8,436	11,294	14,061	14,941
Harvard U.	43	13,534	15,431	15,229	15,250	8,443	11,290	12,576	11,955
U. Michigan, Ann Arbor	44	10,716	12,010	12,983	15,180	4,324	5,055	4,804	6,046
U. Arizona	45	9,674	13,089	12,370	15,084	7,093	6,108	7,066	7,670
California Institute of Technology	46	9,584	15,086	14,405	15,072	8,043	12,844	10,511	11,277
U. Notre Dame	47	11,524	14,217	16,400	14,904	6,163	8,902	10,201	8,265
Dartmouth C. and Dartmouth Hitchcock Medical Center	48	12,250	14,596	15,753	14,889	3,292	4,918	5,230	5,114
New York U.	49	20,892	17,178	14,607	14,584	12,227	11,255	8,151	9,125
Rensselaer Polytechnic Institute	50	9,062	9,830	11,282	14,484	5,689	5,049	5,853	4,377
Boston U.	51	3,046	5,055	11,919	14,251	2,010	2,491	5,295	5,902
U. Tennessee, Knoxville[c]	52	15,565	14,367	14,744	13,906	10,989	9,876	10,706	11,049
U. Florida	53	12,606	12,515	13,569	13,006	7,736	7,201	8,507	9,016
U. Illinois, Chicago	54	12,708	11,653	10,522	12,999	7,447	6,873	5,679	7,580
U. Alabama, Tuscaloosa	55	12,047	11,550	12,482	12,836	4,418	4,772	4,439	4,044
U. California, Berkeley	56	10,339	10,454	12,125	12,701	430	389	690	255
U. Texas, San Antonio	57	8,273	10,239	12,132	12,064	5,615	7,312	7,721	5,470
U. Hawaii, Manoa	58	14,247	10,971	10,173	11,963	13,621	10,458	9,899	11,055
U. Maryland, Baltimore County	59	2,577	6,352	8,065	11,590	1,870	4,913	4,989	6,765
U. Louisiana, Lafayette	60	17,710	15,078	11,650	11,111	2,972	4,899	2,169	1,050
SUNY, Stony Brook U.	61	9,528	9,365	9,726	10,909	6,632	6,939	7,788	8,530
Rice U.	62	12,583	11,281	11,939	10,760	10,707	9,709	10,013	7,698
Florida State U.	63	9,281	11,684	11,557	10,349	4,487	4,681	3,787	3,969
U. North Carolina, Charlotte	64	7,181	9,812	10,468	10,163	6,620	7,241	8,286	8,343
Worcester Polytechnic Institute	65	3,694	3,578	7,301	10,150	2,516	2,647	5,023	7,300
U. Texas, Dallas	66	7,580	7,608	8,136	9,992	4,261	4,597	4,763	6,289

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. South Florida, Tampa	67	7,189	8,803	7,707	9,417	2,796	3,049	3,184	2,582
U. Pittsburgh, Pittsburgh	68	9,032	8,386	9,734	9,312	5,656	6,002	6,889	6,612
U. California, Santa Barbara	69	12,511	11,397	10,965	9,231	7,073	6,670	6,351	5,973
New Jersey Institute of Technology	70	8,208	9,887	10,619	9,177	4,521	5,243	3,885	3,428
Rockefeller U.	71	7,751	8,029	8,037	9,058	0	0	0	0
U. California, Riverside	72	7,040	7,398	9,450	8,974	4,864	5,364	7,221	5,999
Rochester Institute of Technology	73	4,228	5,079	6,328	8,910	2,318	2,793	3,189	5,556
U. Nebraska, Lincoln	74	9,237	9,227	8,919	8,541	4,429	4,870	4,828	4,420
U. Memphis	75	8,164	13,831	9,482	8,486	7,313	11,139	6,188	4,277
Northwestern U.	76	2,530	2,512	3,035	8,441	1,055	1,214	1,459	5,024
Louisiana State U., Baton Rouge	77	3,477	6,455	6,538	8,284	1,273	4,110	4,051	5,502
Washington State U.	78	5,770	9,407	8,705	8,251	3,320	4,170	3,520	4,027
Oregon State U.	79	8,111	9,666	8,869	8,213	6,190	7,939	7,304	6,218
SUNY, Binghamton U.	80	6,405	7,442	7,176	7,873	1,986	2,135	2,607	2,734
Iowa State U.	81	7,731	10,194	8,296	7,666	3,891	5,675	4,152	4,815
U. Texas, El Paso	82	5,832	5,522	5,851	7,597	5,131	4,930	4,796	5,639
U. Texas, Arlington	83	4,506	5,719	7,191	7,572	2,445	2,412	2,575	2,817
U. Nevada, Reno	84	4,134	7,719	7,812	7,550	2,575	3,965	2,858	3,390
Naval Postgraduate School	85	6,531	7,718	11,598	7,345	3,682	4,004	6,843	4,608
George Washington U.	86	6,476	6,509	8,578	7,308	3,797	4,309	4,266	3,135
U. California, Davis	87	6,818	7,888	7,562	7,256	4,693	5,724	5,544	5,005
U. Dayton	88	1,838	1,445	4,245	7,200	744	1,116	3,453	5,964
U. Massachusetts, Lowell	89	6,458	5,746	7,481	7,153	3,008	2,611	4,108	4,051
U. Delaware	90	5,171	5,267	5,274	6,648	4,067	4,346	4,540	5,643
SUNY, U. Albany	91	5,034	5,277	6,541	6,591	957	1,182	2,709	2,739
Rutgers, State U. New Jersey, New Brunswick	92	10,380	8,478	5,881	6,402	7,655	7,916	4,381	4,851
Duke U.	93	5,611	5,785	5,845	6,019	5,139	5,454	5,497	5,535
Yale U.	94	11,375	6,309	5,996	5,969	5,819	4,257	4,245	3,666
Temple U.	95	4,500	4,252	4,560	5,901	3,149	2,879	2,818	2,496
Toyota Technological Institute, Chicago	96	2,880	3,251	3,681	5,887	1,581	1,759	1,934	3,038
U. Oregon	97	5,002	4,231	5,059	5,652	3,611	3,504	3,738	4,228
U. Houston	98	5,442	7,068	4,819	5,599	3,144	4,358	3,033	2,546
U. Connecticut	99	4,342	4,807	5,103	5,575	2,989	3,492	2,815	3,194
Washington U., Saint Louis	100	4,633	4,465	5,504	5,467	3,658	3,820	4,583	4,675
Oklahoma State U., Stillwater	101	1,768	3,368	3,673	5,361	534	504	547	371
Mississippi State U.	102	7,073	6,328	6,944	5,189	3,637	2,716	3,822	1,749

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas Tech U.	103	4,040	4,135	4,427	5,111	962	1,004	1,019	1,160
Syracuse U.	104	5,488	7,723	5,571	5,081	3,238	4,724	2,621	1,266
U. California, Santa Cruz	105	3,225	4,235	4,401	5,009	1,591	1,838	1,910	2,199
Auburn U., Auburn	106	1,799	2,653	4,368	5,006	171	602	1,505	1,740
Indiana U.-Purdue U., Indianapolis	107	2,965	3,509	3,920	5,002	1,407	1,826	2,106	3,307
Norfolk State U.	108	4,306	4,474	5,010	4,921	4,306	4,474	5,010	4,921
Clemson U.	109	5,936	5,904	5,193	4,852	2,096	3,900	2,663	2,355
U. South Carolina, Columbia	110	2,184	2,376	2,436	4,809	1,588	1,623	1,526	1,999
U. North Texas, Denton	111	2,586	3,065	5,879	4,769	1,521	1,600	1,966	1,262
U. Arkansas, Fayetteville	112	628	868	5,088	4,591	124	422	2,008	1,753
New Mexico State U.	113	1,703	2,124	2,705	4,539	1,562	1,944	2,296	3,869
U. Kansas	114	4,214	4,073	4,004	4,416	2,274	1,915	2,285	2,887
Dakota State U.	115	2,171	3,586	3,694	4,337	1,976	3,273	3,006	3,909
Florida Institute of Technology	116	1,742	2,359	4,242	4,287	1,457	1,956	3,930	3,223
Colorado State U., Fort Collins	117	5,056	4,349	4,278	4,278	4,067	3,800	3,761	3,645
Tufts U.	118	3,710	3,392	3,777	4,273	3,369	3,315	3,777	4,128
U. Missouri, Columbia	119	2,025	1,660	4,567	4,187	1,841	1,425	3,924	3,674
Drexel U.	120	6,125	6,599	4,298	4,105	3,684	3,964	2,827	2,885
U. Kentucky	121	2,997	3,138	3,165	4,054	1,796	1,647	1,639	1,554
U. Rochester	122	2,948	3,557	3,657	4,021	2,418	2,882	3,167	3,383
U. New Mexico	123	5,373	4,366	3,649	3,964	4,072	2,992	2,616	2,876
U. South Alabama	124	1,829	1,533	3,355	3,846	1,671	1,283	3,256	3,705
U. Georgia	125	5,554	4,902	3,731	3,760	2,019	1,305	1,453	1,105
Colorado School of Mines	126	900	1,429	2,782	3,748	630	1,117	2,593	3,461
Kennesaw State U.	127	1,129	1,429	3,369	3,727	66	123	174	105
Stevens Institute of Technology	128	2,253	3,169	3,666	3,606	2,229	3,100	3,325	3,454
U. Iowa	129	2,327	3,017	3,599	3,547	1,750	2,443	2,958	2,673
Kansas State U.	130	2,726	3,436	2,923	3,511	1,411	1,840	1,637	1,844
Georgia State U.	131	2,908	3,192	3,562	3,435	1,213	1,497	1,885	1,531
North Dakota State U.	132	3,286	4,900	2,556	3,433	1,598	1,405	943	463
U. Arkansas, Little Rock	133	1,537	2,534	3,486	3,246	1,020	1,922	2,517	2,691
U. North Dakota	134	1,180	2,227	2,059	3,199	400	571	45	336
U. Nebraska, Omaha	135	2,021	2,287	3,287	3,185	1,038	1,298	2,097	1,827
U. Tulsa	136	3,440	3,074	2,426	3,139	2,397	1,705	1,660	2,531
U. Vermont	137	1,830	1,305	2,829	3,036	876	1,056	1,636	911
U. Oklahoma, Norman and Health Science Center	138	2,699	2,845	1,752	3,019	1,712	1,688	1,354	1,285
Michigan Technological U.	139	2,313	2,415	2,158	2,994	909	800	588	1,054

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Illinois Institute of Technology	140	2,752	3,108	3,005	2,988	2,514	2,941	2,760	2,708
William & Mary	141	2,021	2,133	2,914	2,917	1,749	1,614	1,852	1,881
New Mexico Institute of Mining and Technology	142	1,985	565	1,169	2,780	1,790	565	1,062	2,748
Northern Arizona U.	143	724	908	3,383	2,671	0	106	282	698
Missouri U. of Science and Technology	144	2,946	2,968	2,496	2,648	1,916	1,785	1,198	1,337
Florida Atlantic U.	145	1,866	1,427	2,170	2,586	616	308	1,119	1,309
Utah State U.	146	1,999	1,861	2,040	2,538	1,291	1,069	1,262	1,543
Louisiana Tech U.	147	1,729	1,684	1,856	2,475	175	53	385	726
Teachers C., Columbia U.	148	1,493	1,627	1,948	2,459	764	1,235	1,320	1,284
Air Force Institute of Technology	149	2,036	1,697	2,733	2,441	1,046	992	1,817	1,656
Emory U.	150	593	1,551	2,427	2,345	0	0	113	323
Lehigh U.	151	1,099	1,615	2,164	2,333	802	1,019	1,382	1,521
Rutgers, State U. New Jersey, Newark	152	1,089	2,535	1,970	2,269	768	1,983	1,849	2,269
Tulane U.	153	1,933	2,511	2,312	2,257	1,256	1,579	1,438	1,803
Tennessee Technological U.	154	1,690	2,096	2,416	2,221	829	1,136	1,417	1,364
Texas State U.	155	2,675	1,258	2,096	2,197	1,027	928	876	768
Old Dominion U.	156	1,755	1,778	2,530	2,196	1,299	1,300	1,061	874
Virginia Commonwealth U.	157	893	1,331	1,286	2,138	769	1,265	1,286	1,584
Wayne State U.	158	1,735	1,784	1,881	2,133	966	1,168	1,145	1,066
Wright State U.	159	4,008	3,259	2,986	2,034	2,204	1,755	1,684	871
U. Cincinnati	160	1,690	2,205	1,516	2,031	19	91	70	123
U. West Florida	161	457	538	1,845	1,995	44	396	471	460
U. Maine	162	1,331	1,339	1,377	1,967	501	625	313	629
West Virginia U.	163	1,948	1,339	1,150	1,894	1,632	823	1,103	1,646
Rutgers, State U. New Jersey, Camden	164	2,629	1,442	1,169	1,848	2,122	1,243	1,039	1,789
Kent State U.	165	1,215	1,477	1,766	1,766	312	400	396	605
Boise State U.	166	1,911	1,565	1,454	1,761	832	833	764	1,216
U. Montana, Missoula	167	234	759	1,291	1,746	220	684	945	1,371
North Carolina Agricultural and Technical State U.	168	2,236	1,686	1,861	1,742	2,088	1,498	1,658	1,567
CUNY, Hunter C.	169	588	1,780	2,001	1,726	314	1,270	1,594	1,474
Brandeis U.	170	1,184 i	1,425	1,560	1,721	980	980	1,130	1,561
U. Hawaii, system office	171	ne	0	0	1,715	ne	0	0	1,694
U. Missouri, Kansas City	172	978	905	1,456	1,625	88	87	267	399
U. Idaho	173	1,967	1,493	1,238	1,595	1,314	1,139	872	985
U. New Orleans	174	1,826	2,019	2,045	1,591	862	1,162	866	637

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Massachusetts, Dartmouth	175	601	973	1,393	1,572	113	115	181	448
DePaul U.	176	3,498	2,148	1,661	1,528	2,520	1,753	1,515	1,448
Howard U.	177	1,111	1,034	1,328	1,523	514	432	655	655
U. Texas Rio Grande Valley	178	120	166	824	1,520	32	76	205	252
San Diego State U.	179	1,714	1,634	1,563	1,519	989	1,224	874	636
U.S. Naval Academy	179	1,982	1,775	1,190	1,519	1,982	1,775	1,176	1,413
U. Alabama, Birmingham	181	575	919	827	1,502	531	858	751	1,356
CUNY, City C.	182	1,134	895	990	1,490	785	703	656	803
U. California, Office of the President	183	1,485	1,485	1,485	1,485	0	0	0	0
Montana State U., Bozeman	184	1,043	1,102	1,427	1,459	775	988	1,104	1,149
U. Nebraska, central administration	185	ne	796	3,634	1,385	ne	796	3,634	1,385
Brigham Young U., Provo	186	2,151	1,716	1,578	1,350	1,684	1,697	1,440	1,199
Ball State U.	187	1,233	1,580	1,236	1,263	431	1,019	365	258
U. Massachusetts, Boston	188	2,308	1,926	1,949	1,242	1,401	1,167	781	525
U. Southern Maine	189	1,545	1,328	1,283	1,190	0	0	0	0
U. North Carolina, general administration	190	550	718	723	1,168	0	0	0	10
Portland State U.	191	1,485	1,167	1,370	1,164	1,280	865	1,073	996
Saint Louis U.	191	384	303	655	1,164	171	227	412	578
St. Edward's U.	193	470	195	1,010	1,150	320	100	550	700
U. Alaska, Fairbanks	194	2,489	1,202	1,058	1,148	565	315	590	820
Morehouse C.	195	180	403	914	1,141	180	403	914	1,141
U. Nevada, Las Vegas	196	1,772	1,782	1,662	1,077	327	875	643	314
Oakland U.	197	706	476	847	1,073	403	182	500	482
Pace U.	198	36	64	775	1,043	12	22	609	903
U. Colorado Colorado Springs	199	1,767	1,305	928	1,035	1,731	1,291	865	1,023
California State U., Monterey Bay	200	465	538	512	1,023	49	0	141	734
Baylor U.	201	540	500	581	1,011	46	22	0	97
California State U., San Marcos	202	908	964	654	987	908	964	654	987
U. Tennessee, Chattanooga	203	479	506	634	975	304	317	462	873
San Francisco State U.	204	890	706	840	869 i	185	89	143	149 i
U. New Hampshire	205	1,879	359	883	854	652	148	526	576
Marquette U.	206	0	0	178	834	0	0	0	324
U. Missouri, Saint Louis	207	925	834	25	833	26	5	11	3
East Carolina U.	208	207	266	554	828	141	116	277	213
Idaho State U.	209	605	708	792	820	493	650	707	651

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Polytechnic U. Puerto Rico	210	ne	ne	863	813	ne	ne	863	813
U. South Dakota	211	333	1,346	363	799	19	503	82	665
Harvey Mudd C.	212	802	576	730	791	646	454	516	640
Creighton U.	213	740 i	645 i	846 i	730 i	386 i	282 i	432 i	396 i
Miami U.	214	234	670	775	721	166	441	411	298
Ohio U.	215	0 i	729 i	712	703	0	76	165	103
California State U., Dominguez Hills	216	136	187	243	700	128	158	239	633
Hampton U.	217	423	714	448	699	423	714	448	699
U. Washington, Tacoma	218	0	234	555	696	0	221	555	696
Bryn Mawr C.	219	424	497	332	691	195	209	222	226
Southern Methodist U.	220	760	597	1,412	683	305	116	318	290
Bowie State U.	221	702	732	508	682	702	732	508	682
American U.	222	0	0	2,122	672	0	0	159	264
Chapman U.	223	3	37	244	665	0	15	72	0
Northern Illinois U.	224	944	1,252	935	661	459	451	383	332
California State Polytechnic U., Pomona	225	478	97	225	653	456	95	216	607
California Polytechnic State U., San Luis Obispo	226	321	586	850	626	245	369	587	362
Towson U.	227	736	517	500	603	528	419	383	488
U. New Haven	228	0	176	129	602	0	137	123	562
Boston C.	229	387	521	559	599	337	419	335	411
U. Wyoming	230	940	317	342	581	671	302	336	541
Montclair State U.	231	631	204	427	535	631	204	235	117
Villanova U.	232	579	383	498	527	405	156	131	179
Embry-Riddle Aeronautical U.	233	280	0	0	526	178	0	0	406
Purdue U., Northwest	234	320	766	919	524	287	760	883	491
U. Rhode Island	235	703	783	687	523	703	724	687	465
Morgan State U.	236	137	489	222	520	137	402	199	519
Clarkson U.	237	204	307	506	517	77	134	427	421
U. North Carolina, Greensboro	238	148	0	16	510	101	0	0	323
Kean U.	239	ne	ne	ne	509	ne	ne	ne	417
Jackson State U.	240	1,821	1,314	567	502	1,613	1,180	423	418
Claflin U.	241	322	458	447	500	322	458	447	500
U.S. Air Force Academy	242	703	1,044	640	490	424	755	640	490
Gallaudet U.	243	493	1,384	645	486	8	311	463	319
Rowan U.	244	435	528	391	482	18	5	131	256
Black Hills State U.	245	0	0	0	480	0	0	0	452
CUNY, Lehman C.	246	277	317	0	476	245	253	0	0
California State U., San Bernardino	247	691	1,155	1,831	472	614	1,133	1,717	401

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U.S. Military Academy	248	198	1,600	1,687	469	198	1,600	1,687	469
Winston-Salem State U.	249	0	0	0	443	0	0	0	443
Wellesley C.	250	668	469	632	431	667	464	417	430
U. Central Arkansas	251	336	352	442	426	234	237	320	381
Tarleton State U.	252	0	0	10	412	0	0	0	0
Tuskegee U.	253	80 i	65	401	409	65	65	401	409
CUNY, Brooklyn C.	254	280	325	388 i	403	222	238	342 i	356
Vassar C.	255	111	704 i	153	400	111	704 i	153	273
Southern Illinois U., Carbondale	256	499	515	545	396	73	60	13	33
Smith C.	257	624	606	427	391	579	557	348	328
Fordham U.	258	473	534	635	390	112	283	160	164
Citadel Military C. South Carolina	259	ne	ne	ne	380	ne	ne	ne	378
Eastern Michigan U.	260	195	182	201	376	65	59	7	0
Grinnell C.	261	436	279	416	357	71	111	124	76
Salisbury U.	262	246	1,023	351	346	156	171	174	57
Appalachian State U.	263	371	126	198	336	349	116	170	233
California State U., Stanislaus	264	93	239	290	331	93	239	290	331
Indiana U. Pennsylvania	264	13	30	10	331	11	15	8	0
California State U., East Bay	266	ne	ne	ne	329	ne	ne	ne	61
James Madison U.	267	164	160	661	325	154	122	47	18
Western Washington U.	268	167	209	93	318	119	149	93	274
U. North Carolina, Asheville	269	5	8	128	310	5	8	128	310
Alabama A&M U.	270	754 i	597 i	441 i	301 i	627 i	485 i	343 i	234 i
Prairie View A&M U.	271	262	304	293	292	260	294	271	292
Arkansas State U., Jonesboro	272	335	288	332	290	296	191	259	158
U. Minnesota, Duluth	273	167	123	283	289	18	8	111	163
Marshall U.	274	469	53	78	287	409	35	34	254
U. Miami	275	1,298	938	1,140	283	687	721	552	91
Bowling Green State U.	276	227	240	295	274	99	103	110	67
Northwestern State U. Louisiana	277	383	407	332	272	0	0	0	0
Connecticut C.	278	57	11	56	248	28	5	24	83
Middle Tennessee State U.	279	159	87	323	245	92	72	236	204
Florida Polytechnic U.	280	ne	ne	112	241	ne	ne	49	64
Calvin U.	281	6	381	255	239 i	0	246	10	10 i
Occidental C.	282	0	13	254	236	0	13	254	236
U. Colorado Denver and Anschutz Medical Campus	283	240	271	614	234	220	267	267	210
Wake Forest U.	284	156	159	81	226	126	159	81	59

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Texas A&M U.-Corpus Christi	285	623		715		1,008		222		205		553		850		204	
CUNY, system office	286	390		508		338		215		366		458		284		84	
U. North Carolina, Wilmington	287	18		147		110		210		13		116		69		130	
West Texas A&M U.	287	0		0		58		210		0		0		24		116	
Claremont Graduate U.	289	518	i	412	i	306		207		445	i	326	i	206		98	
U. Mississippi	289	199		604		584		207		103		53		42		101	
U. Puerto Rico, Rio Piedras	289	688		602		654		207		439		510		462		75	
Southern U. and A&M C., Baton Rouge	292	131		80		172		202		127		76		170		189	
California State U., Northridge	293	131		112		189		201		0		0		91		201	
CUNY, John Jay C. of Criminal Justice	294	19		34		74		195		7		28		74		193	
C. New Jersey	295	49		7		ne		194		49		7		ne		194	
U. California, Merced	295	0		41		157		194		0		41		157		116	
Bucknell U.	297	98	i	110		200		189	i	4	i	4		24		23	i
Colgate U.	298	223		250		362		188		126		173		242		165	
New York Institute of Technology	298	555		231		181		188		152		159		181		132	
Doane U.	300	ne		49		181		186	i	ne		43		170		175	i
Clark Atlanta U.	301	263		182		405		183		262		170		383		166	
CUNY, Queens C.	302	626		393		155		182		357		251		73		135	
California State U., Sacramento	303	108		109		123		178		46		36		41		105	
U. North Florida	303	171		125		123		178		0		0		0		51	
CUNY, New York City C. of Technology	305	ne		308		210		177		ne		299		204		177	
St. Olaf C.	306	187		33		22		167		171		2		10		132	
U. Alaska, Anchorage	307	226		471		685		165		189		327		578		150	
C. Charleston	308	603		502		280		162		443		384		235		90	
Loyola U., Chicago	309	51		66		100		160		32		38		70		139	
Texas Southern U.	310	665		276		250		159		640		256		225		148	
Southern Illinois U., Edwardsville	311	126		195		80		151		45		61		80		39	
Barnard C.	312	0		0		1		149		0		0		0		60	
Azusa Pacific U.	313	180		35		12		148		0		0		0		0	
Tennessee State U.	313	490		480		328		148		352		477		317		139	
U. of the Virgin Islands	313	0		303		309		148		0		303		309		148	
Nova Southeastern U.	316	305		149		246		146		55		140		216		125	
Western Michigan U. and Homer Stryker M.D. School of Medicine	317	391		258		212		145		264		136		130		131	
Oberlin C.	318	10		47		179		144		0		10		130		80	
U. Southern Mississippi	318	1,993		3,163		443		144		1,992		3,151		440		114	

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Mount Holyoke C.	320	219	306	273	141	216	240	226	140
Macalester C.	321	0	0	119	140	0	0	0	0
Mercer U.	322	0	95	115	136	0	0	0	15
Saint Joseph's U.	322	30	26	42	136	26	23	42	118
New Mexico Highlands U.	324	0	14	ne	134	0	0	ne	134
Weber State U.	325	ne	ne	ne	133	ne	ne	ne	70
U. Central Oklahoma	326	82	51	133	132 i	59	45	133	132 i
Fayetteville State U.	327	279	279	220	131	279	279	220	131
Pennsylvania State U., Harrisburg	328	7	228	382	130	1	41	5	2
Texas Christian U.	329	0	0	26	126	0	0	26	101
William Paterson U.	330	11	116	133	125	0	0	0	0
Pennsylvania State U., Behrend	331	114	107	138	119	25	31	47	37
SUNY, C. of Environmental Science and Forestry	331	0	0	4	119	0	0	2	23
California State U., Fresno	333	13	219	46	117	13	175	46	75
Middlebury C.	333	80	146	269	117	80	146	269	117
U. Wisconsin-Milwaukee	335	241	230	337	116	153	172	260	93
Bates C.	336	0	2	47	113	0	2	47	113
C. Wooster	337	2	8	0	112	0	0	0	0
Columbus State U.	337	ne	ne	ne	112	ne	ne	ne	75
Elizabeth City State U.	337	133	52	ne	112	133	34	ne	101
Carleton C.	340	179	101	291	111	74	94	73	33
U. Houston-Clear Lake	340	168	148	37	111	109	86	21	96
West Virginia State U.	342	151	106	0	110	151	106	0	99
Williams C.	342	148	240	115	110 i	129	216	60	58 i
Santa Clara U.	344	0	149	45	107	0	73	37	29
Central Michigan U.	345	56	6	2	105	0	0	0	0
South Carolina State U.	346	0	4 i	100	104 i	0	0 i	100	104 i
California State U., Long Beach	347	68	71	74	102	6	18	69	42
Florida A&M U.	347	594	1,353	1,268	102	573	1,339	1,257	90
Haverford C.	349	97 i	61 i	86 i	101 i	79	41	52	39
Lafayette C.	349	171	147	124	101	171	142	117	85
Xavier U. Louisiana	351	376	438	442	100	375	427	416	87
U. Denver	352	145	48	111	99	121	48	111	99
Benedict C.	353	259	279	276	98	217	279	276	98
U. Louisville	354	225	262	309	97	219	147	112	0
Oklahoma State U., Center for Health Sciences	355	153	0	89	95	0	0	0	0
Pomona C.	355	197	135	195	95	107	74	112	95
U. Houston-Downtown	355	75	551	71	95	63	550	49	86

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Texas A&M U.-Commerce	358	95		135		64		94		38		7		0		24	
Fisk U.	359	483		225		86		93		483		225		0		0	
Hamilton C.	360	6		9		8		89		0		0		0		0	
Eastern Connecticut State U.	361	8		7		6		86		0		0		0		0	
Hawaii Pacific U.	361	0		0		0		86		0		0		0		72	
Keck Graduate Institute	361	0	i	70	i	83	i	86	i	0	i	47	i	55	i	57	i
Bowdoin C.	364	79		6		16		84		78		0		13		72	
SUNY, Oswego	364	9		17		27		84		0		0		14		52	
California State U., Fullerton	366	152		67		191		83		40		45		0		33	
Texas A&M International U.	367	0		0		2		80		0		0		0		0	
U. of the District of Columbia	368	0		0		0		79		0		0		0		79	
St. Cloud State U.	369	25		196		116		75		0		177		86		0	
Lamar U.	370	174		215		582		74		57		146		539		14	
U. Minnesota, Morris	371	0		ne		3		72		0		ne		0		0	
Reed C.	372	62		68		128		68		0		0		117		61	
U. Wisconsin-La Crosse	372	64		128		84		68		46		31		5		36	
Mercyhurst U.	374	794	i	ne		65	i	67	i	223	i	ne		35	i	36	i
CUNY, C. Staten Island	375	281		52	i	63		66		40		52	i	63		65	
Georgia Southern U.	376	176		86		134		65		70		19		94		16	
Illinois State U.	376	31		49		78		65		0		16		17		23	
Humboldt State U.	378	25		20		87		64		2		0		0		8	
Lawrence Technological U.	379	0		0		31		63		0		0		31		63	
Rhode Island C.	379	0		0		15		63		0		0		15		60	
Augusta U.	381	22		28		24		61		22		28		23		28	
Clark U.	382	2		28		34		60		1		28		33		47	
U. San Francisco	382	80		30		27		60		59		2		0		0	
U. Wisconsin-Oshkosh	382	48	i	51	i	58	i	60	i	41	i	43	i	50	i	52	i
Central Washington U.	385	79		22		5		58		0		0		5		0	
U. Wisconsin-Green Bay	386	33	i	39	i	58	i	57	i	28	i	21	i	32	i	35	i
Coastal Carolina U.	387	24		18		82		56		18		18		82		56	
U. Wisconsin-River Falls	388	0		0		ne		55		0		0		ne		55	
Missouri State U.	389	0		0		2		53		0		0		2		48	
C. of Saint Benedict	390	64		54		53	i	51	i	28		25		24	i	23	i
Trinity U.	391	535		60		29		50		421		32		0		15	
U. Texas, Tyler	391	71		19		32		50		54		9		28		26	
South Dakota School of Mines and Technology	393	0		0		4		49		0		0		4		49	

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
CUNY, Baruch C.	394	7		30		0		46		0		30		0		46	
Furman U.	395	12		22		22		45		2		2		9		0	
La Salle U.	395	ne		ne		ne		45		ne		ne		ne		0	
U. of Mary Washington	395	ne		0		1		45		ne		0		0		15	
Rhode Island School of Design	398	18	i	31	i	46	i	44	i	0	i	17	i	21	i	20	i
Biola U.	399	31	i	36	i	41	i	42	i	23	i	25	i	29	i	30	i
Florida Gulf Coast U.	400	21		12		145		41		21		12		27		41	
U. Washington, Bothell	400	629		381		738		41		417		285		623		41	
Ithaca C.	402	ne		ne		ne		39		ne		ne		ne		39	
Northeastern Illinois U.	402	123		211		217		39		123		211		217		39	
Lipscomb U.	404	ne		ne		ne		38	i	ne		ne		ne		26	i
Oregon Institute of Technology	405	317	i	326	i	41	i	37	i	0	i	0		0	i	0	
U. North Georgia	405	0		0		12		37		0		0		0		37	
California State U., Los Angeles	407	22		20		50	i	36		8		12		0		0	
Elon U.	407	90		84		90		36		49		42		42		0	
Case Western Reserve U.	409	0		200		50		34		0		199		50		34	
Spelman C.	409	25		63		86		34		25		63		86		34	
Kentucky State U.	411	126	i	132		110		32		126	i	132		110		32	
Lewis and Clark C.	411	153		73		32		32		33		73		32		27	
Southeastern Louisiana U.	413	3		0		31		29		0		0		16		5	
Hope C.	414	0		0		0		28		0		0		0		0	
North Carolina Central U.	414	0		0		0		28		0		0		0		12	
Amherst C.	416	21		26		38		25		0		0		0		0	
Saint John's U., Collegeville	416	32		26		26	i	25	i	0		0		0	i	0	i
Loyola Marymount U.	418	21		0		3		24		13		0		0		0	
New Jersey City U.	418	5		100		160		24		5		100		150		24	
Emerson C.	420	0		0		450		23		0		0		64		0	
Kettering U.	421	221		5		15		22		212		0		0		0	
U. Baltimore	421	18		25		10		22		18		0		10		10	
Central Connecticut State U.	423	19		ne		16		21		0		ne		0		0	
Seattle U.	423	5		21		35		21		0		0		0		0	
U. Detroit Mercy	425	0		22		0		20		0		0		0		0	
East Tennessee State U.	426	0		0	i	0	i	19	i	0		0		0		0	
Sam Houston State U.	427	62		141		49		18		40		84		0		0	
U. Wisconsin-Platteville	427	23	i	ne		18	i	18	i	12	i	ne		12	i	12	i
U. of St. Thomas (MN)	429	0		0		35		17		0		0		10		17	
Midwestern State U.	430	ne		ne		ne		16		ne		ne		ne		0	

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Swarthmore C.	431	38	16	12	15	33	3	0	6
California Lutheran U.	432	ne	ne	76	14	ne	ne	0	0
Colby C.	432	23	38	37	14	8	31	36	14
Texas Woman's U.	432	79	15	15	14	79	15	15	14
Northern Kentucky U.	435	38	67	62	13	36	3	0	0
South Dakota State U.	435	0	0	0	13	0	0	0	0
Western Kentucky U.	435	22	21	18	13	3	2	0	0
Johnson C. Smith U.	438	106	385	395	11	106	335	395	11
Southern Connecticut State U.	438	17	8	19	11	0	0	0	0
U. Michigan, Dearborn	438	0	0	0	11	0	0	0	0
U. Michigan, Flint	438	2	33	14	11	0	0	0	0
California State U., Chico	442	0	46	14	10	0	34	14	10
San Jose State U.	442	169	33	8	10	24	1	0	0
Grand Valley State U.	444	6	13	14	9	0	0	0	0
St. John's U., New York	444	11	97	128	9	0	0	86	0
Wheaton C., Wheaton	444	0	0	5	9	0	0	0	0
Sonoma State U.	447	ne	ne	ne	8	ne	ne	ne	0
St. Bonaventure U.	447	ne	ne	ne	8	ne	ne	ne	0
Bradley U.	449	21	7	0	7	0	0	0	0
Franklin and Marshall C.	449	359	140	90	7	349	109	46	0
Saginaw Valley State U.	449	8	13	8	7	2	0	1	1
Union C., Schenectady	449	64	50	312	7	21	22	293	3
West Chester U. Pennsylvania	449	47	35	25	7	0	0	0	0
Fairfield U.	454	0	0	0	6	0	0	0	0
Hofstra U.	454	12	0	58	6	12	0	0	3
New School	454	344	41	0	6	0	41	0	0
Skidmore C.	454	0	6	1	6	0	0	0	0
Stockton U.	454	ne	0	0	6	ne	0	0	0
U. Nebraska, Kearney	454	0	0	0	6	0	0	0	0
Youngstown State U.	454	113	134	17	6	106	129	9	0
Morehead State U.	461	4	0	0	5	4	0	0	0
Troy U.	461	ne	ne	ne	5	ne	ne	ne	0
U. Hartford	461	92	4	7	5	92	4	7	5
Trinity C., Hartford	464	1,352	247	3	4	1,343	226	0	0
Gettysburg C.	465	0	0	1	3	0	0	0	0
Jacksonville State U.	465	189 i	180	31	3	189 i	180	31	3
SUNY, C. Brockport	465	0	0	0	3	0	0	0	0
U. Maryland Center for Environmental Science	468	0	0	0	2	0	0	0	0
Albion C.	469	10	31	17	1	0	0	0	0
Delaware State U.	469	127	83	1	1 i	24	8	0	0 i
Northwest Indian C.	469	ne	0	0	1 i	ne	0	0	1 i

TABLE 38

Total and federally financed higher education R&D expenditures in the computer and information sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Akron	469	341	32	7	1	57	29	0	0
U. Hawaii, Hilo	469	0	0	0	1	0	0	0	1
All other surveyed institutions	-	47,717	47,803	531	0	34,707	32,765	378	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $218,485 thousand imputed for total and $210,188 thousand reported for federally financed R&D expenditures in computer and information sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	3,147,841	3,159,520	3,185,923	3,281,251	612,890	1,159,627	1,136,259	372,475
U. California, San Diego	1	186,827	159,294	180,626	201,331	33,205	36,871	131,255	0
Woods Hole Oceanographic Institution	2	132,686	143,179	145,169	143,240	0	0	143,240	0
U. Washington, Seattle	3	118,763	122,167	123,301	135,307	50,737	15,129	65,008	4,433
U. Colorado Boulder	4	128,164	136,586	121,624	119,824	32,942	13,006	2,017	71,859
Texas A&M U., College Station and Health Science Center	5	115,183	115,394	113,459	107,894	5,637	14,392	79,758	8,107
U. Oklahoma, Norman and Health Science Center	6	47,554	63,159	71,836	84,812	75,531	9,281	0	0
Columbia U. in the City of New York	7	84,745	80,240	75,900	78,288	9,965	29,922	38,401	0
Arizona State U.	8	53,751	82,299	83,703	73,544	0	73,544	0	0
U. Alaska, Fairbanks	9	67,711	65,850	69,346	72,609	7,277	34,852	24,396	6,084
U. Hawaii, Manoa	10	90,909	78,170	82,955	71,468	3,840	16,072	49,627	1,929
Colorado State U., Fort Collins	11	122,150	116,804	85,500	67,642	43,063	22,187	3	2,389
Johns Hopkins U.[a]	12	35,624 i	34,663 i	42,585 i	65,556 i	10,436 i	26,228 i	16,698 i	12,194 i
U. Wisconsin-Madison	13	52,105	50,280	58,701	65,000	40,482	15,574	0	8,944
U. Texas, Austin	14	64,052	55,302	51,155	61,145	38	47,519	11,098	2,490
U. Maryland[b]	15	na	na	52,823	58,099	28,448	26,350	2,551	750
U. New Hampshire	16	51,592	52,678	48,149	51,661	23,179	6,146	22,336	0
U. Miami	17	63,018	50,321	48,427	50,684	31,048	0	18,881	755
U. Maryland Center for Environmental Science	18	46,312	42,675	43,867	43,554	80	3,719	38,546	1,209
Harvard U.	19	37,409	42,697	43,664	43,505	5,791	10,816	25	26,873
California Institute of Technology	20	33,138	32,030	37,101	43,338	2,539	33,000	114	7,685
U. Rhode Island	21	49,241	47,018	50,513	42,634	0	13,990	19,534	9,110
U. California, Los Angeles	22	35,266	38,361	38,106	41,594	8,368	25,136	0	8,090
Pennsylvania State U., University Park and Hershey Medical Center	23	44,378	50,302	46,390	41,590	19,239	18,116	4,235	0
U. California, Santa Barbara	24	30,714	33,665	35,554	40,396	0	15,783	24,517	96
Oregon State U.	25	45,970	48,616	40,030	39,215	1,848	5,693	22,241	9,433
William & Mary	26	34,067	33,109	32,425	33,084	0	924	32,160	0

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Massachusetts Institute of Technology	27	47,798	41,824	34,015	32,718	8,892	11,897	8,738	3,191
Louisiana State U., Baton Rouge	28	29,452	31,488	31,853	32,283	0	4,269	20,469	7,545
U. Arizona	29	29,723	28,947	31,075	31,148	5,223	22,911	2,390	624
U. California, Davis	30	25,750	27,316	29,166	30,153	3,131	3,248	4,860	18,914
U. Southern Mississippi	31	23,802	18,864	29,968	29,843	0	4,695	9,920	15,228
U. California, Santa Cruz	32	22,218	24,348	26,570	29,389	0	7,332	15,676	6,381
North Carolina State U.	33	19,596	19,819	21,691	27,010	6,860	0	6,576	13,574
Rutgers, State U. New Jersey, New Brunswick	34	25,429	19,173	18,036	25,634	3,068	394	21,523	649
SUNY, Stony Brook U.	35	28,092	25,646	26,282	25,334	172	6,255	18,756	151
U. South Florida, Tampa	36	27,289	26,509	25,127	24,670	0	6,424	18,246	0
U. Maine	37	25,031	22,741	25,039	24,051	0	7,773	16,252	26
Princeton U.	38	25,660	28,636	24,755	23,819	8,301	8,028	4,200	3,290
Desert Research Institute	39	26,941	24,601	23,991	22,889	5,832	17,057	0	0
Florida State U.	40	19,668	20,650	18,343	20,816	5,296	3,047	10,749	1,724
U. Georgia	41	24,163	22,530	23,281	20,493	0	4,006	16,487	0
Stanford U.	42	16,079	18,036	17,624	20,216	0	12,021	2,713	5,482
U. Utah	43	11,668	12,580 i	27,848 i	20,011 i	7,124 i	12,887 i	0 i	0 i
U. Southern California	44	15,855	16,323	16,850	19,983	0	11,575	5,953	2,455
U. North Carolina, Chapel Hill	45	19,991	19,136	16,922	19,242	0	7,973	6,765	4,504
U. Florida	46	15,350	16,846	17,186	17,740	0	9,403	7,451	886
U. Delaware	47	21,126	20,689	18,346	17,697	0	4,140	9,841	3,716
Mississippi State U.	48	7,270	8,947	10,928	17,335	1,479	12,770	2,970	116
U. Alabama, Huntsville	49	13,866	12,552	16,001	17,304	16,483	664	157	0
Florida International U.	50	10,799	14,800	14,955	16,023	4,262	1,952	9,809	0
SUNY, U. Albany	51	29,115	17,696	15,833	15,523	13,701	1,822	0	0
U. Maryland, Baltimore County	52	22,836	20,275	13,585	15,158	1,988	10,880	1,957	333
U. Nevada, Reno	53	11,868	14,369	14,563	15,077	350	13,839	298	590
U. Michigan, Ann Arbor	54	14,449	14,278	15,705	14,928	0	14,928	0	0
U. Minnesota, Twin Cities	55	14,204	14,248	14,391	14,715	0	14,715	0	0

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Michigan Technological U.	56	13,880	13,885	14,388	13,896	1,604	100	4,153	8,039
San Jose State U.	57	12,216	14,627	12,777	13,747	2,226	159	11,355	7
U. Wyoming	58	10,877	9,473	6,755	12,944	9,925	3,008	0	11
Georgia Institute of Technology	59	11,942	12,380	12,260	12,904	432	12,419	53	0
U. California, Irvine	60	11,305	10,922	11,580	12,705	156	12,549	0	0
Texas A&M U.-Corpus Christi	61	15,697	14,719	13,494	11,900	602	1,074	4,797	5,427
U. Hawaii, system office	62	ne	11,022	10,531	11,853	11,853	0	0	0
Nova Southeastern U.	63	8,692	7,857	8,878	11,436	0	0	11,436	0
U. Massachusetts, Dartmouth	64	10,591	11,084	11,550	10,917	0	2	10,915	0
U. Pittsburgh, Pittsburgh	65	13,116	12,405	13,185	10,875	0	2,622	0	8,253
U. California, Riverside	66	9,611	9,880	10,774	10,855	0	3,680	0	7,175
George Mason U.	67	12,256	11,977	11,598	10,679	3,931	4,485	1,962	301
U. Kansas	68	12,792	11,329	10,594	10,485	605	8,718	549	613
Purdue U., West Lafayette	69	6,031	6,013	7,119	10,166	8,750	0	0	1,416
U. California, Berkeley	70	9,783	11,473	9,429	9,845	34	9,811	0	0
Duke U.	71	11,054	11,171	11,077	9,675	0	2,130	7,545	0
West Virginia U.	72	7,546	7,266	10,049	9,625	0	8,020	0	1,605
Washington State U.	73	10,529	8,441	10,109	9,440	117	2,516	179	6,628
U. Houston	74	6,124	8,002	10,516	9,437	1,992	6,790	435	220
U. Connecticut	75	9,289	10,356	10,974	9,186	0	920	8,266	0
Ohio State U.	76	9,090	9,286	9,030	9,158	0	9,158	0	0
U. Chicago	77	8,850	9,652	9,370	9,090	0	9,090	0	0
Colorado School of Mines	78	10,340	8,380	8,238	8,916	0	7,679	0	1,237
Texas Tech U.	79	6,750	6,583	8,213	8,913	465	5,095	0	3,353
Boston U.	80	6,807	7,105	8,701	8,573	0	8,571	2	0
U. South Carolina, Columbia	81	3,389	1,781	988	8,374	0	233	8,141	0
Cornell U.	82	5,152	6,568	6,531	8,145	1,192	6,874	79	0
Indiana U., Bloomington	83	3,758	5,528	7,220	7,962	2,746	1,653	0	3,563
Montana Technological U.	84	7,222	7,162	7,235	7,825	0	7,825	0	0
Northern Arizona U.	85	4,380	9,714	7,984	7,408	133	4,778	48	2,449
Texas State U.	86	3,211	5,402	7,349	7,357	6	2,792	0	4,559
U. Alaska, Anchorage	87	3,302	5,101	5,186	7,339	215	5,068	1,103	953

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Wisconsin-Milwaukee	88	7,236	7,681	6,442	7,288	8	929	6,351	0
U. New Mexico	89	8,233	7,775	7,329	6,924	227	6,671	0	26
U. North Dakota	90	5,793	4,056	6,713	6,781	5,832	949	0	0
New Mexico Institute of Mining and Technology	91	5,733	5,610	6,791	6,729	0	6,729	0	0
U. Oregon	92	3,166	3,785	4,871	6,704	0	6,101	603	0
Naval Postgraduate School	93	7,020	7,227	6,339	6,566	2,087	978	2,862	639
U. Nevada, Las Vegas	94	4,280	4,253	4,526	6,342	188	5,458	0	696
U. Illinois, Urbana-Champaign	95	6,303	7,272	6,868	6,281	3,619	2,662	0	0
Southern Methodist U.	96	6,620	5,941	6,954	6,100	0	6,100	0	0
U. Virginia, Charlottesville	97	5,916	4,785	5,352	6,040	125	0	0	5,915
Brown U.	98	3,540	4,306	4,310	5,954	98	1,901	193	3,762
Yale U.	99	6,448	7,613	6,995	5,916	0	5,916	0	0
U. Montana, Missoula	100	3,068	5,035	6,376	5,878	0	2,668	3,210	0
Florida A&M U.	101	2,942	3,701	5,282	5,844	0	0	5,140	704
Boston C.	102	6,058	5,533	5,130	5,836	4,786	1,050	0	0
U. Toledo	103	5,178	4,189	5,659	5,748	0	5,239	0	509
Montana State U., Bozeman	104	5,757	5,125	5,618	5,603	0	3,893	0	1,710
Washington U., Saint Louis	105	6,642	5,045	5,676	5,509	0	5,509	0	0
U. Memphis	106	4,132	4,629	4,117	5,493	0	5,493	0	0
U. Puerto Rico, Mayaguez	107	6,403	5,475	5,676	5,487	0	517	4,970	0
Michigan State U.	108	3,277	3,779	5,244	5,435	0	5,199	0	236
U. Louisiana, Lafayette	109	4,333	3,290	3,957	5,426	0	4,367	1,059	0
New Mexico State U.	110	3,856	4,939	3,908	5,381	135	2,500	0	2,746
U. Tennessee, Knoxville[c]	111	4,722	5,752	5,557	5,322	0	3,641	0	1,681
Dartmouth C. and Dartmouth Hitchcock Medical Center	112	4,904	4,771	4,359	5,241	0	5,241	0	0
U. North Carolina, Wilmington	113	4,558	4,511	5,193	5,206	0	244	4,688	274
Rice U.	114	5,491	3,958	4,341	5,152	0	5,152	0	0
U. South Alabama	115	4,020	4,186	4,222	5,011	0	90	4,921	0
U. Idaho	116	5,241	5,244	5,923	4,933	137	4,725	0	71
Tulane U.	117	3,409	3,753	4,317	4,825	0	4,825	0	0

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
East Carolina U.	118	738	4,433	3,684	4,586	0	823	3,763	0
Iowa State U.	119	3,178	3,659	3,917	4,538	0	4,538	0	0
San Francisco State U.	120	4,197	3,233	4,297	4,450 i	172 i	388 i	3,890 i	0 i
U. Massachusetts, Amherst	121	3,966	5,215	6,569	4,265	1,437	2,828	0	0
Old Dominion U.	122	5,214	5,151	4,907	4,166	0	0	4,166	0
Northeastern U.	123	4,082	4,296	4,603	4,039	0	429	3,610	0
U. Central Florida	124	7,400	5,039	4,486	4,008	3,991	17	0	0
Western Washington U.	125	2,931	3,802	3,822	3,897	0	2,473	1,424	0
U. Massachusetts, Boston	126	6,587	6,451	5,249	3,848	98	1,370	2,364	16
U. Puerto Rico, Rio Piedras	127	2,203	2,192	2,537	3,754	0	3,754	0	0
SUNY, U. Buffalo	128	4,212	4,479	3,533	3,739	0	3,739	0	0
Boise State U.	129	4,814	5,633	3,536	3,660	110	3,409	123	18
U. of the Virgin Islands	130	420	542	830	3,639	0	296	3,343	0
Stevens Institute of Technology	131	5,324	3,931	3,365	3,527	699	0	351	2,477
U. Arkansas, Fayetteville	132	3,792	4,287	4,449	3,499	0	3,135	0	364
Auburn U., Auburn	133	3,820	2,171	2,690	3,460	62	2,513	0	885
Hampton U.	134	4,080	4,022	3,779	3,454	3,003	0	359	92
U. Maryland, Eastern Shore	134	5,287	2,775	4,369	3,454	0	0	3,454	0
U. Texas, El Paso	136	2,948	2,566	3,168	3,426	0	3,392	0	34
Morgan State U.	137	4,984	4,372	3,955	3,384	0	3,384	0	0
Tarleton State U.	138	4,059	4,903	3,504	3,188	0	599	0	2,589
U. Rochester	139	2,696	2,702	2,765	3,104	0	3,104	0	0
Virginia Polytechnic Institute and State U.	140	4,503	3,867	4,185	3,068	61	3,007	0	0
U. Alabama, Tuscaloosa	141	828	895	1,000	3,062	0	3,062	0	0
Syracuse U.	142	3,940	3,766	3,913	3,060	0	3,060	0	0
U. Kentucky	143	2,608	2,385	2,331	2,966	0	2,966	0	0
U. California, Merced	144	2,459	3,165	2,916	2,943	0	2,943	0	0
U. Nebraska, Lincoln	144	4,374	4,014	3,639	2,943	0	2,943	0	0
Grand Valley State U.	146	3,089	3,124	2,818	2,887	0	18	0	2,869
Oklahoma State U., Stillwater	147	2,889	4,546	2,613	2,870	0	2,870	0	0
Rensselaer Polytechnic Institute	148	1,873	2,601	1,931	2,837	0	2,837	0	0
Stockton U.	149	ne	2,171	2,484	2,789	0	403	2,295	91
U. Vermont	150	141	446	772	2,716	1,508	937	233	38

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Guam	151	2,578	2,548	2,753	2,696	0	355	2,241	100
U. Minnesota, Duluth	152	1,166	1,245	3,466	2,480	0	2,480	0	0
U. Iowa	153	2,434	2,113	2,088	2,441	0	1,196	0	1,245
U. Texas, San Antonio	154	1,018	1,087	1,178	2,354	0	1,873	0	481
Florida Institute of Technology	155	1,815	2,559	2,096	2,310	18	0	2,292	0
San Diego State U.	156	3,091	2,978	2,582	2,234	0	1,322	517	395
Portland State U.	157	1,999	2,094	2,090	2,212	226	1,810	171	5
Baylor U.	158	2,070	2,573	2,685	2,185	275	1,343	345	222
U. Massachusetts, Lowell	159	787	1,938	1,977	2,177	1,038	1,139	0	0
California State U., Northridge	160	1,993	1,859	1,832	2,158	0	467	625	1,066
U. Washington, Tacoma	161	746	1,452	1,827	2,089	0	0	2,089	0
U. North Texas, Denton	162	698	747	1,444	2,064	0	2,064	0	0
Temple U.	163	1,229	1,721	1,559	2,044	0	2,044	0	0
Southern Illinois U., Edwardsville	164	1,496	1,987	1,383	1,979	0	1,623	0	356
Vanderbilt U. and Vanderbilt U. Medical Center	165	3,608	3,355	1,586	1,919	0	1,919	0	0
SUNY, Binghamton U.	166	1,884	2,108	2,026	1,916	196	1,658	0	62
Bowling Green State U.	167	657	723	1,112	1,903	0	473	1,430	0
Clark U.	168	909	1,052	1,787	1,890	0	1,781	109	0
Idaho State U.	169	2,963	2,913	1,447	1,792	0	941	0	851
U. Texas Rio Grande Valley	170	1,122	1,280	2,049	1,769	0	27	1,640	102
U. Pennsylvania	171	1,935	1,266	2,455	1,760	0	1,760	0	0
CUNY, City C.	172	1,438	2,113	2,459	1,699	0	1,699	0	0
Ohio U.	173	2,232 i	1,400 i	1,618	1,697	134	1,563	0	0
Coastal Carolina U.	174	1,617	1,301	1,573	1,690	573	0	1,117	0
Florida Gulf Coast U.	175	555	1,032	877	1,654	0	0	1,654	0
Monmouth U.	176	ne	ne	1,082	1,621	0	0	1,621	0
U. New Orleans	177	2,488	2,356	1,778	1,585	0	1,585	0	0
Central Washington U.	178	2,143	1,779	2,110	1,525	0	1,525	0	0
Lehigh U.	179	1,144	1,166	1,191	1,510	0	1,421	0	89
Rutgers, State U. New Jersey, Newark	180	2,525	3,312	3,313	1,485	0	1,485	0	0
Kansas State U.	181	2,184	2,574	2,337	1,479	0	1,479	0	0
Humboldt State U.	182	4,584	2,660	1,490	1,464	253	365	797	49

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Western Michigan U. and Homer Stryker M.D. School of Medicine	183	1,575	1,278	1,546	1,402	0	1,402	0	0
Miami U.	184	514	1,241	1,031	1,354	0	1,354	0	0
Northwestern U.	185	1,821	1,627	1,547	1,351	0	1,351	0	0
CUNY, Hunter C.	186	794	1,297	1,147	1,339	0	1,339	0	0
Embry-Riddle Aeronautical U.	187	189	1,475	818	1,336	1,336	0	0	0
California State U., Monterey Bay	188	740	922	1,327	1,281	0	630	587	64
Indiana U.-Purdue U., Indianapolis	189	1,164	1,266	926	1,277	0	1,277	0	0
Montclair State U.	190	1,024	1,128	1,685	1,262	0	982	259	21
SUNY, C. of Environmental Science and Forestry	191	1,264	1,131	554	1,211	207	771	174	59
Alaska Pacific U.	192	781	1,210	1,406	1,196	0	0	1,114	82
Florida Atlantic U.	193	405	1,017	1,149	1,186	284	4	0	898
Saint Louis U.	194	1,453	1,161	1,281	1,174	0	1,174	0	0
U. Cincinnati	195	1,377	1,439	1,143	1,171	0	1,171	0	0
U. Mississippi	196	1,678	1,797	1,726	1,151	88	453	610	0
Heidelberg U.	197	408	911	1,222	1,125	0	0	1,125	0
California Polytechnic State U., San Luis Obispo	198	882	1,410	1,362	1,105	0	0	1,105	0
Georgia State U.	199	971	1,070	1,268	1,104	0	1,104	0	0
Occidental C.	200	133	573	817	1,086	0	89	997	0
Emory U.	201	1,391	1,675	1,237	1,075	0	0	0	1,075
C. Charleston	202	1,424	1,365	1,212	1,048	117	593	338	0
Northwest Indian C.	203	ne	466	1,043	1,033 i	287 i	291 i	455 i	0 i
California State U., East Bay	204	ne	ne	ne	1,029	0	1,029	0	0
U. Illinois, Chicago	205	650	653	701	1,021	0	1,021	0	0
U. North Carolina, Charlotte	206	207	366	1,111	1,009	0	1,009	0	0
U. Missouri, Columbia	207	1,481	1,005	1,335	988	0	964	0	24
Rockefeller U.	208	1,086	1,052	974	986	0	0	0	986
Kent State U.	209	940	1,022	942	958	199	692	3	64
U. New England	210	1,526	1,092	1,405	936	0	0	936	0
South Dakota State U.	211	5,600	3,991	1,933	904	0	904	0	0
SUNY, Buffalo State	212	960	915	1,050	895	0	234	0	661
U. Hawaii, Hilo	213	528	785	842	894	104	381	409	0
Salisbury U.	214	1,165	1,274	1,334	891	0	786	0	105
U. Texas, Arlington	215	1,385	1,275	1,289	877	0	877	0	0

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. West Florida	216	42	189	138	875	0	875	0	0
Carleton C.	217	304	292	1,607	863	0	863	0	0
U. Texas, Dallas	218	920	938	907	856	0	856	0	0
Texas A&M U.-Kingsville	219	1,417	1,368	942	849	18	0	0	831
Southern Illinois U., Carbondale	220	1,182	1,271	1,354	848	9	345	0	494
Western Kentucky U.	221	1,270	1,175	979	842	18	823	0	1
California State U., Sacramento	222	798	934	909	839	0	839	0	0
Villanova U.	223	437	824	809	826	64	762	0	0
SUNY, C. Plattsburgh	224	521	476	850	824	10	0	814	0
Wesleyan U.	225	294	512	444	821	0	821	0	0
CUNY, Queens C.	226	541	414	427	817	0	817	0	0
Illinois State U.	227	546	474	809	791	0	791	0	0
U.S. Naval Academy	228	531	1,110	1,079	775	0	0	775	0
James Madison U.	229	745	678	1,003	753	0	658	0	95
Air Force Institute of Technology	230	2,365	1,792	967	742	742	0	0	0
Roger Williams U.	231	753	913	700	730	0	0	616	114
Savannah State U.	232	479	591	633	728	0	247	328	153
Georgia Southern U.	233	476	259	774	719	44	147	528	0
Towson U.	234	528	650	653	709	0	709	0	0
U. Alabama, Birmingham	235	1,496	1,199	870	701	701	0	0	0
Central Michigan U.	236	501	644	661	677	121	404	149	3
Delaware State U.	237	980	956	633	654 i	161 i	0 i	493 i	0 i
CUNY, Brooklyn C.	238	784	625	631 i	645	0	528	117	0
American U.	239	396	511	482	642	0	0	0	642
Bowdoin C.	240	301	562	507	635	0	63	572	0
Skidmore C.	241	103	495	762	632	0	577	0	55
U. Colorado Denver and Anschutz Medical Campus	242	477	3,256	2,200	612	582	30	0	0
Austin Peay State U.	243	131	56	14	596	0	596	0	0
Duquesne U.	244	109	77	84	584	0	584	0	0
William Paterson U.	245	216	156	299	579	0	579	0	0
Sonoma State U.	246	ne	ne	ne	571	0	38	72	461
North Dakota State U.	247	612	296	714	553	0	553	0	0
Northern Illinois U.	247	290	568	395	553	0	354	0	199
New School	249	6	330	800	537	0	44	0	493
St. Edward's U.	250	1,583	440	1,077	528	418	10	0	100
CUNY, York C.	251	ne	ne	85	527	0	527	0	0
Case Western Reserve U.	252	877	789	591	523	0	523	0	0

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
California State U., Long Beach	253	276		209		125		514		0		514		0		0	
Utah State U.	254	1,431		1,836		1,150		511		408		103		0		0	
Appalachian State U.	255	1,268		945		583		499		238		205		56		0	
Loyola Marymount U.	256	297		805		761		489		0		66		0		423	
Tufts U.	257	212		1,151		482		472		148		299		20		5	
Creighton U.	258	0	i	474	i	539	i	465	i	465	i	0	i	0	i	0	i
Brigham Young U., Provo	259	627		302		567		461		0		461		0		0	
Colgate U.	260	520		765		511		453		0		299		0		154	
Carnegie Mellon U.	261	1,228		1,599		994		448		182		0		0		266	
Amherst C.	262	92		74		169		439		0		439		0		0	
George Washington U.	263	821		716		288		436		0		253		0		183	
Rowan U.	264	172		481		451		409		0		409		0		0	
New York U.	265	468		361		434		401		0		279		122		0	
Illinois Institute of Technology	266	269		416		246		398		275		123		0		0	
California State U., Chico	267	131		160		140		395		0		395		0		0	
Stonehill C.	268	ne		ne		ne		393		0		0		393		0	
Macalester C.	269	420		210		427		390		248		122		0		20	
U. Washington, Bothell	270	485		116		462		371		318		0		53		0	
U. Dayton	271	77		225		428		359		252		107		0		0	
Virginia Commonwealth U.	272	1,220		1,196		871		354		0		0		0		354	
SUNY, C. Brockport	273	206		85		396		353		0		353		0		0	
Long Island U.	274	0		0		40		345		0		345		0		0	
California State U., Fullerton	275	364		693		420		329		0		300		29		0	
North Carolina Central U.	276	395		287		303		321		0		321		0		0	
Oregon Institute of Technology	277	0	i	0	i	358	i	312	i	0	i	256	i	0	i	56	i
U. Missouri, Kansas City	278	582		495		402		308		0		188		0		120	
Kean U.	279	ne		ne		ne		301		0		301		0		0	
Fort Hays State U.	280	ne		ne		331		298		0		261		0		37	
Western Carolina U.	281	637		489		494		297		0		39		258		0	
U. Northern Colorado	282	42		74		140		296		0		296		0		0	
Wayne State U.	282	235		339		412		296		0		296		0		0	
U. Akron	284	244		187		192		285		0		285		0		0	
Pomona C.	285	453		131		236		274		0		134		0		140	
Bryn Mawr C.	286	401		268		185		260		0		260		0		0	
Marshall U.	287	58		39		164		258		0		0		0		258	

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
Southern Connecticut State U.	288	267		109		168		253		0		88		165		0	
Pennsylvania State U., Behrend	289	1,885		1,034		1,154		250		11		11		228		0	
Texas Christian U.	290	204		168		178		248		0		246		2		0	
Middlebury C.	291	512		260		270		240		0		240		0		0	
SUNY, Geneseo	292	421		301		298		239		0		239		0		0	
Franklin and Marshall C.	293	215		355		710		232		0		162		70		0	
Haverford C.	294	0	i	154	i	229	i	229	i	0	i	27	i	202	i	0	i
U. Minnesota, Morris	295	229		ne		216		227		0		227		0		0	
U. Wisconsin-Stevens Point	296	189	i	201	i	214	i	226		0		226		0		0	
Howard U.	297	1,101		618		248		225		0		0		225		0	
U. Alaska, Southeast	298	526		424		309		222		0		44		178		0	
Hawaii Pacific U.	299	371		318		324		220		0		38		37		145	
West Texas A&M U.	300	161		191		434		219		130		0		0		89	
St. Cloud State U.	301	1		12		13		217		9		208		0		0	
U. Tulsa	302	279		223		112		213		0		137		0		76	
Chapman U.	303	209		274		231		212		0		0		0		212	
Lewis and Clark C.	303	225		195		294		212		91		119		0		2	
Wright State U.	305	594		570		312		210		0		210		0		0	
CUNY, Baruch C.	306	190		135		79		198		0		30		168		0	
Des Moines U.	307	124		162		82		197		0		197		0		0	
Williams C.	308	189		180		205		195	i	0	i	186	i	0	i	9	i
Colby C.	309	81		122		152		193		0		193		0		0	
Jackson State U.	310	2,130		1,562		1,794		189		0		0		0		189	
New Mexico Highlands U.	310	0		70		ne		189		0		189		0		0	
Texas Southern U.	310	176		0		140		189		13		0		0		176	
U. Louisville	313	152		192		197		180		37		143		0		0	
Stephen F. Austin State U.	314	216		342		292		177		0		174		0		3	
California State U., Bakersfield	315	243		299		262		176		0		176		0		0	
Elizabeth City State U.	315	96		146		ne		176		0		176		0		0	
U. Colorado Colorado Springs	317	124		55		79		173		26		13		134		0	
Eastern Michigan U.	318	397		505		399		172		77		95		0		0	
U. Denver	319	99		108		186		168		0		168		0		0	
U. San Diego	320	1,122		583		185		163		0		0		163		0	
Indiana U. Pennsylvania	321	192		233		497		161		7		154		0		0	
Wellesley C.	321	0		30		154		161		1		160		0		0	
Providence C.	323	8		103		166		160		0		0		160		0	

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
Union C., Schenectady	324	312		625		189		154		0		154		0		0	
Hobart and William Smith Colleges	325	218		ne		118		148		137		11		0		0	
California State U., Fresno	326	100		113		125		147		0		147		0		0	
U. New Haven	327	0		185		152		143		97		0		46		0	
U. Northern Iowa	328	174		165		161		142		0		0		0		142	
U. Puerto Rico, Medical Sciences Campus	329	0		0		29		136		0		136		0		0	
Murray State U.	330	193		181		120		134		0		134		0		0	
U. North Georgia	331	134		121		129		133		1		61		0		71	
Wheaton C., Wheaton	332	15		49		136		130		0		130		0		0	
Central State U.	333	45		122		163		126		0		126		0		0	
Midwestern State U.	334	ne		ne		ne		125		0		125		0		0	
Loyola U., Chicago	335	13		16		13		121		0		121		0		0	
Indiana State U.	336	94		42		199		120		0		120		0		0	
Bates C.	337	167		100		119		119		0		119		0		0	
U. South Carolina, Aiken	337	233		43		0		119		0		40		79		0	
Dickinson C.	339	21		ne		31		106		0		105		0		1	
U. San Francisco	339	187		295		194		106		77		29		0		0	
CUNY, Advanced Science Research Center	341	446		1,442		3		104		0		2		102		0	
Eastern Connecticut State U.	342	123		110		22		101		0		17		84		0	
U.S. Military Academy	343	215		245		111		98		0		0		0		98	
U. of Mary Washington	344	ne		25		17		97		0		97		0		0	
Colorado C.	345	160		58		109		96		0		96		0		0	
Missouri State U.	346	99		133		34		95		0		95		0		0	
U. Houston-Downtown	347	6		8		27		94		0		94		0		0	
U. Wisconsin-Oshkosh	347	88	i	92	i	91	i	94	i	0	i	94	i	0	i	0	i
Oberlin C.	349	500		224		157		93		0		93		0		0	
Central Connecticut State U.	350	91		ne		61		91		0		91		0		0	
DePaul U.	350	11		27		37		91		0		91		0		0	
Northern Michigan U.	350	55		207		155		91		0		84		0		7	
Weber State U.	350	ne		ne		ne		91		0		91		0		0	
U. Wisconsin-Green Bay	354	78	i	66	i	92	i	90	i	0	i	90	i	0	i	0	i

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
Bucknell U.	355	98	i	102		94		89	i	0	i	89	i	0	i	0	i
California State U., San Bernardino	356	72		40		118		87		0		87		0		0	
Albion C.	357	64		80		53		84		0		84		0		0	
Louisiana Tech U.	357	84		76		77		84		0		0		0		84	
Texas A&M International U.	357	152		232		96		84		0		84		0		0	
U. North Carolina, Asheville	357	545		412		128		84		16		68		0		0	
SUNY, Oswego	361	39		63		52		73		23		50		0		0	
Sam Houston State U.	362	13		31		86		72		0		72		0		0	
U. Wisconsin-Platteville	363	0	i	ne		70	i	71	i	5	i	43	i	0	i	23	i
California State Polytechnic U., Pomona	364	393		319		295		68		0		8		0		60	
Benedict C.	365	439		532		157		66		0		45		21		0	
West Chester U. Pennsylvania	366	87		77		60		65		0		65		0		0	
Prairie View A&M U.	367	0		0		57		62		0		5		0		57	
U. Richmond	367	75		49		49		62		0		62		0		0	
Barnard C.	369	21		24		9		60		0		50		10		0	
Tennessee Technological U.	369	27		56		74		60		0		60		0		0	
C. Wooster	371	110		103		120		59		0		59		0		0	
Clarkson U.	371	0		0		4		59		0		59		0		0	
Eastern Washington U.	373	45		45		66		58		0		58		0		0	
Fort Lewis C.	374	ne		ne		22		56		0		46		0		10	
Trinity U.	374	125		46		113		56		0		56		0		0	
Northeastern Illinois U.	376	200		150		131		50		0		50		0		0	
Troy U.	377	ne		ne		ne		49		2		0		47		0	
Middle Tennessee State U.	378	183		134		500		48		0		9		0		39	
California State U., San Marcos	379	0		379		0		47		0		0		0		47	
Furman U.	379	132		121		16		47		0		47		0		0	
U. Louisiana, Monroe	381	147		33		307		46		39		0		0		7	
Andrews U.	382	ne		ne		64		45		0		45		0		0	
Wichita State U.	383	82		36		25		44		0		44		0		0	
Mercyhurst U.	384	147	i	ne		41	i	42	i	0	i	42	i	0	i	0	i
Seattle U.	384	0		4		37		42		0		0		42		0	
U. Southern Maine	384	0		3		41		42		0		0		42		0	
U. of the District of Columbia	387	189		102		84		41		0		41		0		0	

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
CUNY, system office	388	54		144		148		39		39		0		0		0	
St. Olaf C.	389	8		13		102		38		14		0		24		0	
Claflin U.	390	101		138		259		37		37		0		0		0	
CUNY, Lehman C.	390	33		37		0		37		0		37		0		0	
Saginaw Valley State U.	392	3		30		11		36		0		4		0		32	
Smith C.	392	64		69		117		36		0		36		0		0	
Calvin U.	394	13		2		37		35	i	0	i	35	i	0	i	0	i
U. Wisconsin-La Crosse	394	34		25		31		35		0		35		0		0	
North Carolina Agricultural and Technical State U.	396	230		135		129		31		0		0		0		31	
U. Wisconsin-Superior	397	ne		34		25		30		0		30		0		0	
Claremont McKenna C.	398	88		93		173		29		0		0		29		0	
Suffolk U.	399	0	i	ne		ne		28		0		0		28		0	
Gettysburg C.	400	108		130		209		25		0		25		0		0	
Whitman C.	401	ne		ne		52		23		0		23		0		0	
Sul Ross State U.	402	2		2		0		22		0		22		0		0	
Hope C.	403	0		0		0		20		0		20		0		0	
U. Central Arkansas	403	5		4		0		20		0		20		0		0	
Albany State U.	405	27		288		18		19		15		0		0		4	
Dakota State U.	406	0		0		0		18		0		18		0		0	
U. Nebraska, Omaha	406	86		113		7		18		0		18		0		0	
U. of St. Thomas (MN)	406	85		56		15		18		0		18		0		0	
Western Illinois U.	406	96		93		6		18		0		18		0		0	
Keene State C.	410	101		ne		39		16		0		0		16		0	
Morehead State U.	410	13		22		7		16		0		7		0		9	
Hamilton C.	412	87		29		72		15		0		9		0		6	
California State U., Dominguez Hills	413	4		13		7		13		0		0		0		13	
Brandeis U.	414	0	i	0		0		12		0		0		0		12	
C. of Saint Benedict	415	17		12		12	i	11	i	0	i	0	i	0	i	11	i
Gallaudet U.	416	109		56		71		10		4		0		6		0	
Saint John's U., Collegeville	416	15		11		11	i	10	i	0	i	0	i	0	i	10	i
U. North Florida	416	128		132		144		10		0		0		0		10	
Ball State U.	419	22		91		57		9		0		9		0		0	
Lafayette C.	420	30		13		0		8		0		8		0		0	
U. Wisconsin-Eau Claire	420	62		1		8		8		0		8		0		0	
Ithaca C.	422	ne		ne		ne		6		0		0		4		2	

TABLE 39

Higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
Pennsylvania State U., Harrisburg	423	0		0		11		5		2		3		0		0	
U. Nebraska, Kearney	423	0		0		0		5		0		5		0		0	
U. South Dakota	423	304		78		87		5		0		5		0		0	
Eastern Kentucky U.	426	11		21		7		4		0		0		0		4	
Hofstra U.	426	20		9		20		4		0		0		0		4	
Willamette U.	426	75		43		14		4		0		0		4		0	
U. Texas, Tyler	429	8		8		4		2		0		2		0		0	
Youngstown State U.	429	6		5		9		2		0		2		0		0	
Alfred U.	431	0		0		0		1		0		0		0		1	
Biola U.	431	0	i	0	i	0	i	1	i	1	i	0	i	0	i	0	i
California State U., Stanislaus	431	1		0		0		1		0		1		0		0	
CUNY, Medgar Evers C.	431	49		0		0		1		0		1		0		0	
Fairfield U.	431	0		0		0		1		0		0		1		0	
Minnesota State U., Mankato	431	0		62		32		1		0		1		0		0	
U. Puget Sound	431	5		ne		ne		1		0		1		0		0	
All other surveyed institutions	-	56,382		54,880		4,265		0		0		0		0		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $48,009 thousand imputed for total R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
All institutions	-	2,042,291	2,048,266	2,067,199	2,109,065	471,158	696,991	713,086	227,830
U. California, San Diego	1	107,931	88,060	120,294	128,962	18,765	14,448	95,749	0
U. Colorado Boulder	2	126,077	132,846	119,659	116,177	31,353	11,984	1,783	71,057
Woods Hole Oceanographic Institution	3	96,228	110,718	112,979	115,744	0	0	115,744	0
U. Washington, Seattle	4	96,441	96,422	100,000	114,555	47,189	12,992	52,751	1,623
Texas A&M U., College Station and Health Science Center	5	85,959	88,535	86,781	82,072	4,294	5,638	67,625	4,515
U. Oklahoma, Norman and Health Science Center	6	26,948	43,991	54,007	64,742	61,762	2,980	0	0
Johns Hopkins U.[a]	7	32,162	29,412	37,235	59,766	9,821	24,023	15,714	10,208
Colorado State U., Fort Collins	8	103,710	100,566	70,266	55,722	37,459	15,997	0	2,266
Arizona State U.	9	36,248	52,476	59,778	54,650	0	54,650	0	0
U. Alaska, Fairbanks	10	51,687	50,997	50,566	54,408	3,768	28,241	18,397	4,002
Columbia U. in the City of New York	11	70,875	65,302	61,544	54,388	6,728	18,266	29,394	0
U. Maryland[b]	12	na	na	46,763	51,008	27,759	21,932	1,108	209
U. Hawaii, Manoa	13	60,762	55,156	58,526	47,728	2,713	10,979	32,445	1,591
U. New Hampshire	14	40,472	38,709	36,870	41,304	20,334	4,665	16,305	0
U. Miami	15	39,797	36,182	36,297	39,430	29,601	0	9,265	564
U. Wisconsin-Madison	16	38,139	36,826	36,615	35,879	25,417	7,018	0	3,444
Oregon State U.	17	38,438	41,429	34,363	33,730	1,784	5,332	17,775	8,839
Harvard U.	18	23,670	26,892	27,835	28,723	3,995	5,080	0	19,648
U. California, Los Angeles	19	22,572	26,061	24,970	27,134	5,723	20,206	0	1,205
California Institute of Technology	20	22,811	22,753	25,436	27,071	2,155	21,406	114	3,396
U. Rhode Island	21	29,316	28,307	32,874	25,349	0	3,967	15,347	6,035
Pennsylvania State U., University Park and Hershey Medical Center	22	27,849	31,354	28,218	24,605	11,800	9,771	3,034	0
U. Southern Mississippi	23	8,841	9,366	21,324	21,092	0	4,445	6,056	10,591
U. Texas, Austin	24	28,732	23,228	19,745	20,523	0	15,644	3,066	1,813
Massachusetts Institute of Technology	25	32,656	27,772	22,382	20,477	6,726	7,339	4,852	1,560
U. California, Santa Barbara	26	12,659	13,504	14,799	16,190	0	7,424	8,766	0
Princeton U.	27	16,845	17,747	15,933	16,105	7,404	3,621	4,200	880
Rutgers, State U. New Jersey, New Brunswick	28	11,804	14,353	11,993	16,060	1,668	265	13,878	249
Desert Research Institute	29	18,607	17,665	16,557	15,748	3,261	12,487	0	0
U. California, Santa Cruz	30	11,115	11,487	12,725	15,234	0	3,023	7,967	4,244

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Alabama, Huntsville	31	9,957	10,004	12,920	14,123	13,390	577	156	0
Mississippi State U.	32	5,184	5,817	7,793	13,635	289	10,979	2,260	107
U. Arizona	33	13,967	13,117	13,372	13,625	1,967	10,393	1,068	197
North Carolina State U.	34	14,270	12,401	12,946	13,202	6,178	0	1,107	5,917
U. North Carolina, Chapel Hill	35	12,952	11,903	11,158	12,873	0	5,687	3,247	3,939
U. Maryland, Baltimore County	36	15,821	14,629	10,807	12,497	1,907	9,704	562	324
William & Mary	37	14,248	14,448	14,272	12,158	0	397	11,761	0
U. Hawaii, system office	38	ne	11,020	10,531	11,673	11,673	0	0	0
U. Utah	39	5,696	7,255	15,150	11,112	3,911	7,201	0	0
SUNY, Stony Brook U.	40	13,576	11,179	11,996	10,824	0	4,223	6,601	0
U. Delaware	41	13,435	12,351	10,066	10,785	0	2,972	5,281	2,532
U. South Florida, Tampa	42	11,313	10,896	10,880	10,327	0	2,203	8,124	0
U. Wyoming	43	10,112	5,959	5,473	10,107	8,622	1,474	0	11
Florida International U.	44	3,502	8,001	7,987	9,463	2,098	644	6,721	0
George Mason U.	45	10,192	10,804	9,912	9,390	3,276	4,034	1,799	281
U. California, Irvine	46	8,557	8,857	9,510	9,301	0	9,301	0	0
U. Southern California	47	12,250	10,908	10,664	9,079	0	7,569	1,510	0
U. Maine	48	10,917	10,472	9,385	9,064	0	1,623	7,436	5
Stanford U.	49	7,247	8,710	7,690	8,906	0	6,823	1,389	694
Florida State U.	50	9,068	8,332	8,123	8,871	1,526	987	5,176	1,182
U. Chicago	51	7,125	8,644	8,639	8,514	0	8,514	0	0
U. Florida	52	8,741	10,165	9,497	8,484	0	6,666	1,476	342
U. Maryland Center for Environmental Science	53	9,805	7,064	8,301	8,462	0	252	7,535	675
Louisiana State U., Baton Rouge	54	6,967	7,956	7,883	8,178	0	1,218	5,188	1,772
U. Michigan, Ann Arbor	55	7,018	7,281	8,070	8,059	0	8,059	0	0
Michigan Technological U.	56	7,868	8,473	8,715	8,015	1,322	0	2,225	4,468
Georgia Institute of Technology	57	8,038	8,340	7,822	7,862	0	7,862	0	0
San Jose State U.	58	8,697	10,336	8,618	7,847	1,855	156	5,836	0
U. Minnesota, Twin Cities	59	7,797	7,622	8,058	7,624	0	7,624	0	0
U. Pittsburgh, Pittsburgh	60	9,002	8,521	8,568	7,374	0	1,222	0	6,152
U. Connecticut	61	5,272	5,866	6,674	7,020	0	744	6,276	0
U. California, Davis	62	7,610	6,596	6,459	7,014	1,093	2,135	532	3,254
SUNY, U. Albany	63	20,856	8,969	6,728	6,953	6,031	922	0	0
U. Nevada, Reno	64	6,677	6,940	6,263	6,910	216	5,958	222	514
Ohio State U.	65	5,966	6,182	6,216	6,489	0	6,489	0	0
Boston U.	66	4,460	5,287	5,898	6,447	0	6,447	0	0
U. Alaska, Anchorage	67	2,666	4,355	4,476	6,432	206	4,537	854	835
Cornell U.	68	4,297	5,072	4,796	6,428	926	5,474	28	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
West Virginia U.	69	4,172	3,992	6,255	6,352	0	5,742	0	610
New Mexico Institute of Mining and Technology	70	5,012	5,010	6,235	6,328	0	6,328	0	0
U. Georgia	71	8,053	6,109	6,855	6,304	0	322	5,982	0
Naval Postgraduate School	72	6,176	5,993	5,268	6,300	2,024	782	2,855	639
U. New Mexico	73	7,393	6,957	6,674	6,249	227	6,002	0	20
Duke U.	74	7,792	6,987	7,079	6,194	0	1,603	4,591	0
Northern Arizona U.	75	3,673	7,751	6,805	5,975	133	3,803	37	2,002
U. California, Berkeley	76	6,627	6,670	5,638	5,816	0	5,816	0	0
U. Illinois, Urbana-Champaign	77	5,591	6,121	5,967	5,419	3,265	2,154	0	0
Nova Southeastern U.	78	3,394	3,210	3,515	5,381	0	0	5,381	0
Florida A&M U.	79	2,766	3,458	4,945	5,329	0	0	4,765	564
Washington State U.	80	5,318	4,276	4,767	5,323	26	1,567	0	3,730
U. Oregon	81	2,460	3,286	4,038	5,073	0	4,487	586	0
Washington U., Saint Louis	82	6,269	4,750	5,192	5,000	0	5,000	0	0
U. California, Riverside	83	5,160	4,555	4,237	4,821	0	2,359	0	2,462
U. Kansas	84	7,205	4,879	3,873	4,622	570	3,268	213	571
Colorado School of Mines	85	4,075	4,025	4,981	4,424	0	3,961	0	463
Purdue U., West Lafayette	86	3,128	3,140	3,042	4,079	4,079	0	0	0
U. Virginia, Charlottesville	87	3,264	2,870	3,896	4,059	0	0	0	4,059
Southern Methodist U.	88	3,627	3,324	4,100	4,026	0	4,026	0	0
U. Puerto Rico, Mayaguez	89	4,339	4,246	3,975	3,896	0	485	3,411	0
U. South Carolina, Columbia	90	1,754	1,079	983	3,889	0	0	3,889	0
Boston C.	91	4,494	4,067	3,209	3,871	3,352	519	0	0
New Mexico State U.	92	2,465	3,752	2,797	3,870	22	1,397	0	2,451
U. North Dakota	93	3,947	1,958	3,056	3,730	3,220	510	0	0
Texas A&M U.-Corpus Christi	94	5,153	5,216	4,273	3,609	338	476	1,598	1,197
U. Nevada, Las Vegas	95	2,788	2,578	2,543	3,541	174	3,031	0	336
Hampton U.	96	4,080	4,022	3,779	3,454	3,003	0	359	92
U. Maryland, Eastern Shore	96	5,266	2,775	4,369	3,454	0	0	3,454	0
Brown U.	98	2,192	2,166	2,488	3,436	75	917	192	2,252
Morgan State U.	99	4,984	4,372	3,955	3,351	0	3,351	0	0
Texas Tech U.	100	2,537	2,326	2,843	3,340	207	2,623	0	510
U. Toledo	101	3,154	2,773	3,474	3,227	0	3,227	0	0
U. Montana, Missoula	102	1,610	2,393	2,967	3,195	0	1,818	1,377	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Montana State U., Bozeman	103	4,188	4,787	4,215	3,123	0	2,019	0	1,104
U. Puerto Rico, Rio Piedras	104	2,091	1,664	1,932	3,108	0	3,108	0	0
U. of the Virgin Islands	105	374	542	713	2,990	0	113	2,877	0
U. Houston	106	1,808	2,588	2,213	2,948	214	2,113	429	192
Iowa State U.	107	1,365	1,568	1,776	2,890	0	2,890	0	0
Texas State U.	108	844	2,932	3,137	2,870	6	1,889	0	975
Stevens Institute of Technology	109	5,006	3,756	3,202	2,846	183	0	212	2,451
U. Massachusetts, Amherst	110	2,568	2,936	4,021	2,803	0	2,803	0	0
Old Dominion U.	111	3,720	3,590	3,290	2,793	0	0	2,793	0
Michigan State U.	112	1,663	2,386	2,983	2,792	0	2,792	0	0
Rice U.	113	2,916	1,995	1,929	2,747	0	2,747	0	0
Boise State U.	114	3,600	4,272	2,556	2,730	109	2,501	108	12
Yale U.	115	3,727	3,142	3,053	2,704	0	2,704	0	0
U. Massachusetts, Dartmouth	116	3,068	2,393	2,297	2,680	0	0	2,680	0
U. Tennessee, Knoxville[c]	117	2,489	2,611	3,160	2,644	0	2,076	0	568
U. Guam	118	2,442	2,382	2,620	2,585	0	302	2,183	100
SUNY, U. Buffalo	119	2,682	2,925	2,286	2,537	0	2,537	0	0
U. Arkansas, Fayetteville	120	2,352	2,464	3,009	2,460	0	2,460	0	0
U. Rochester	121	2,257	2,082	2,112	2,392	0	2,392	0	0
Northeastern U.	122	2,260	2,665	3,174	2,235	0	429	1,806	0
U. South Alabama	123	945	1,188	1,499	2,048	0	58	1,990	0
U. Memphis	124	1,194	1,938	1,605	1,887	0	1,887	0	0
U. Wisconsin-Milwaukee	125	2,424	2,142	1,903	1,862	0	544	1,318	0
U. Washington, Tacoma	126	635	985	1,443	1,861	0	0	1,861	0
Tulane U.	127	1,521	1,574	1,478	1,796	0	1,796	0	0
Portland State U.	128	1,566	1,764	1,895	1,784	74	1,570	135	5
U. California, Merced	129	1,130	1,404	1,391	1,783	0	1,783	0	0
U. Central Florida	130	3,378	1,590	1,654	1,768	1,768	0	0	0
Rensselaer Polytechnic Institute	131	992	1,165	1,111	1,673	0	1,673	0	0
U. Idaho	132	2,604	2,588	2,451	1,662	115	1,476	0	71
Virginia Polytechnic Institute and State U.	133	2,302	2,218	2,251	1,619	48	1,571	0	0
U. Minnesota, Duluth	134	886	979	1,993	1,609	0	1,609	0	0
Indiana U., Bloomington	135	1,603	1,692	1,630	1,597	1,070	520	0	7
CUNY, City C.	136	1,249	1,902	2,103	1,578	0	1,578	0	0
California State U., Northridge	137	1,766	1,697	1,393	1,514	0	447	595	472
San Francisco State U.	138	1,741	875	1,442	1,501 i	0 i	109 i	1,392 i	0 i
U. Massachusetts, Boston	139	3,692	3,753	2,573	1,478	40	807	631	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Vermont	140	134	399	606	1,471	891	347	233	0
U. Kentucky	141	957	644	862	1,466	0	1,466	0	0
U. Massachusetts, Lowell	142	385	971	1,218	1,399	821	578	0	0
Rutgers, State U. New Jersey, Newark	143	1,876	2,295	2,921	1,372	0	1,372	0	0
U. North Carolina, Wilmington	144	1,315	1,019	1,398	1,369	0	47	1,322	0
Florida Gulf Coast U.	145	58	408	615	1,344	0	0	1,344	0
Syracuse U.	146	2,002	1,611	1,616	1,334	0	1,334	0	0
U. Nebraska, Lincoln	147	2,469	2,305	2,140	1,331	0	1,331	0	0
Bowling Green State U.	148	343	269	640	1,330	0	247	1,083	0
Lehigh U.	149	888	841	1,004	1,258	0	1,258	0	0
U. Texas, El Paso	150	1,475	1,662	1,550	1,251	0	1,251	0	0
Idaho State U.	151	2,461	1,891	710	1,248	0	627	0	621
Dartmouth C. and Dartmouth Hitchcock Medical Center	152	1,626	1,376	1,234	1,203	0	1,203	0	0
U. Alabama, Tuscaloosa	153	384	519	499	1,168	0	1,168	0	0
Central Washington U.	154	1,699	1,317	1,650	1,161	0	1,161	0	0
San Diego State U.	155	2,386	1,986	1,433	1,093	0	363	433	297
East Carolina U.	156	514	406	851	1,051	0	506	545	0
U. Louisiana, Lafayette	157	1,704	872	1,089	1,050	0	704	346	0
Northwest Indian C.	158	ne	466	1,043	1,033 i	287 i	291 i	455 i	0 i
Auburn U., Auburn	159	2,037	1,424	1,026	1,003	52	467	0	484
Coastal Carolina U.	160	808	710	862	998	573	0	425	0
U. Texas, San Antonio	161	569	788	617	991	0	510	0	481
Vanderbilt U. and Vanderbilt U. Medical Center	162	1,949	1,858	838	966	0	966	0	0
California Polytechnic State U., San Luis Obispo	163	774	1,257	1,089	963	0	0	963	0
U. Missouri, Columbia	164	1,328	854	1,252	924	0	900	0	24
U. New Orleans	165	1,941	1,708	969	897	0	897	0	0
U. North Texas, Denton	166	514	587	428	873	0	873	0	0
Miami U.	167	391	761	521	872	0	872	0	0
U. Pennsylvania	167	1,387	776	1,255	872	0	872	0	0
U. Hawaii, Hilo	169	498	731	796	871	100	380	391	0
California State U., Monterey Bay	170	538	637	785	867	0	301	502	64
C. Charleston	171	1,149	1,095	1,064	857	117	423	317	0
SUNY, Buffalo State	172	474	626	819	821	0	210	0	611
Embry-Riddle Aeronautical U.	173	179	418	307	807	807	0	0	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Florida Institute of Technology	174	244	761	612	780	15	0	765	0
Saint Louis U.	175	599	571	733	774	0	774	0	0
U.S. Naval Academy	176	531	1,110	1,074	771	0	0	771	0
Oklahoma State U., Stillwater	177	669	940	554	763	0	763	0	0
Western Washington U.	178	953	936	1,153	760	0	274	486	0
U. Texas Rio Grande Valley	179	861	926	1,060	745	0	22	705	18
Northwestern U.	180	1,020	1,021	1,003	730	0	730	0	0
Savannah State U.	181	479	591	633	728	0	247	328	153
Montana Technological U.	182	687	892	788	725	0	725	0	0
California State U., Sacramento	183	630	737	802	716	0	716	0	0
Emory U.	184	1,056	1,145	801	684	0	0	0	684
U. New England	185	1,233	749	1,080	681	0	0	681	0
Indiana U.-Purdue U., Indianapolis	186	903	731	518	679	0	679	0	0
Ohio U.	187	648	294	351	677	33	644	0	0
U. Iowa	188	968	669	636	673	0	666	0	7
Carleton C.	189	175	230	1,330	670	0	670	0	0
Towson U.	190	486	526	542	667	0	667	0	0
U. North Carolina, Charlotte	191	127	198	422	666	0	666	0	0
Occidental C.	192	41	321	480	630	0	87	543	0
Kansas State U.	193	1,751	1,653	1,259	627	0	627	0	0
U. Mississippi	194	441	696	614	617	88	70	459	0
South Dakota State U.	195	4,445	2,988	1,485	602	0	602	0	0
Southern Illinois U., Carbondale	196	333	382	557	593	7	92	0	494
Stockton U.	197	ne	107	493	578	0	378	109	91
Skidmore C.	198	94	475	743	577	0	558	0	19
Georgia State U.	199	340	479	681	575	0	575	0	0
U. Colorado Denver and Anschutz Medical Campus	199	208	2,807	2,178	575	545	30	0	0
U. Illinois, Chicago	201	355	426	381	567	0	567	0	0
Wesleyan U.	202	205	397	314	531	0	531	0	0
Sonoma State U.	203	ne	ne	ne	529	0	30	41	458
James Madison U.	204	563	510	317	508	0	508	0	0
Montclair State U.	205	460	510	825	499	0	348	151	0
Baylor U.	206	535	583	607	496	0	279	217	0
Bowdoin C.	207	258	531	356	493	0	60	433	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
SUNY, C. of Environmental Science and Forestry	207	483	641	483	493	108	241	100	44
California State U., Long Beach	209	123	134	73	492	0	492	0	0
Air Force Institute of Technology	210	1,905	1,534	876	490	490	0	0	0
Case Western Reserve U.	211	835	765	567	478	0	478	0	0
Rockefeller U.	212	443	359	272	466	0	0	0	466
CUNY, York C.	213	ne	ne	85	462	0	462	0	0
Southern Illinois U., Edwardsville	214	488	568	562	461	0	389	0	72
Villanova U.	215	164	502	405	460	64	396	0	0
Humboldt State U.	216	2,398	1,255	376	450	123	183	123	21
Carnegie Mellon U.	217	842	835	791	440	176	0	0	264
Kent State U.	218	345	550	412	439	169	251	0	19
U. Alabama, Birmingham	219	806	812	702	438	438	0	0	0
Tarleton State U.	220	838	272	221	428	0	428	0	0
New School	221	1	325	373	414	0	0	0	414
William Paterson U.	221	77	54	211	414	0	414	0	0
Temple U.	223	454	727	536	410	0	410	0	0
St. Edward's U.	224	1,220	162	807	409	309	0	0	100
California State U., Chico	225	76	83	110	395	0	395	0	0
Illinois State U.	226	159	33	263	394	0	394	0	0
Stonehill C.	227	ne	ne	ne	393	0	0	393	0
SUNY, C. Plattsburgh	228	161	240	488	391	0	0	391	0
Northern Illinois U.	229	269	416	309	375	0	255	0	120
U. Washington, Bothell	230	330	116	310	371	318	0	53	0
Roger Williams U.	231	508	454	300	369	0	0	369	0
Illinois Institute of Technology	232	240	377	236	356	241	115	0	0
U. Dayton	233	49	199	400	352	252	100	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	234	678	581	433	346	0	346	0	0
CUNY, Queens C.	235	417	328	311	322	0	322	0	0
U. Texas, Arlington	235	525	445	547	322	0	322	0	0
U. West Florida	235	0	0	34	322	0	322	0	0
Florida Atlantic U.	238	277	335	387	307	162	0	0	145
Clark U.	239	620	598	410	306	0	197	109	0
U. Cincinnati	240	516	529	339	304	0	304	0	0
Colgate U.	241	395	430	363	295	0	230	0	65
Duquesne U.	242	0	0	12	290	0	290	0	0
Fort Hays State U.	243	ne	ne	316	288	0	251	0	37
Grand Valley State U.	244	524	617	328	287	0	0	0	287

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
Texas A&M U.-Kingsville	245	94	245	201	284	0	0	0	284
Virginia Commonwealth U.	246	771	823	516	280	0	0	0	280
Macalester C.	247	287	141	310	268	248	0	0	20
North Carolina Central U.	248	350	250	233	264	0	264	0	0
SUNY, C. Brockport	249	107	0	239	261	0	261	0	0
Western Carolina U.	250	553	419	320	255	0	20	235	0
Western Kentucky U.	251	396	401	290	254	0	254	0	0
U. Northern Colorado	252	9	5	72	247	0	247	0	0
George Washington U.	253	641	596	213	243	0	243	0	0
Appalachian State U.	254	834	571	266	242	23	163	56	0
Middlebury C.	255	488	241	256	239	0	239	0	0
Creighton U.	256	0 i	192 i	259 i	238 i	238 i	0 i	0 i	0 i
Tufts U.	257	135	592	120	230	0	210	20	0
Rowan U.	258	70	139	308	227	0	227	0	0
Howard U.	259	1,101	618	248	225	0	0	225	0
CUNY, Hunter C.	260	242	265	160	219	0	219	0	0
American U.	261	58	198	215	216	0	0	0	216
Chapman U.	262	209	225	193	206	0	0	0	206
U. Akron	263	127	147	171	202	0	202	0	0
Marshall U.	264	0	0	100	201	0	0	0	201
Texas Christian U.	265	104	167	178	197	0	197	0	0
SUNY, Binghamton U.	266	378	178	411	196	196	0	0	0
Jackson State U.	267	2,122	1,562	1,794	189	0	0	0	189
New Mexico Highlands U.	267	0	66	ne	189	0	189	0	0
Heidelberg U.	269	408	162	159	188	0	0	188	0
Hawaii Pacific U.	270	245	268	288	183	0	38	0	145
Central Michigan U.	271	95	79	86	177	68	14	95	0
Elizabeth City State U.	272	96	146	ne	176	0	176	0	0
Texas Southern U.	272	176	0	119	176	0	0	0	176
U. Minnesota, Morris	272	147	ne	159	176	0	176	0	0
Colby C.	275	51	91	122	175	0	175	0	0
U. Louisville	276	133	187	106	169	37	132	0	0
Lewis and Clark C.	277	225	178	201	164	70	94	0	0
U. Texas, Dallas	278	104	145	167	163	0	163	0	0
Delaware State U.	279	626	412	155	161 i	161 i	0 i	0 i	0 i
Wellesley C.	280	0	2	154	154	0	154	0	0
U. San Diego	281	1,037	519	150	152	0	0	152	0
U. Missouri, Kansas City	282	285	238	224	151	0	151	0	0
U. Colorado Colorado Springs	283	109	46	68	150	22	13	115	0
California State U., Fullerton	284	156	391	189	145	0	145	0	0
U. Alaska, Southeast	284	487	420	254	145	0	43	102	0

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020				
					All geosciences, atmospheric sciences, and ocean sciences	Atmospheric science and meteorology	Geological and earth sciences	Ocean sciences and marine sciences	Geosciences, atmospheric sciences, and ocean sciences nec
U. Denver	284	46	101	154	145	0	145	0	0
North Dakota State U.	287	96	198	277	139	0	139	0	0
CUNY, Baruch C.	288	35	135	0	137	0	30	107	0
U. Puerto Rico, Medical Sciences Campus	289	0	0	29	136	0	136	0	0
New York U.	290	388	164	55	133	0	133	0	0
Union C., Schenectady	291	285	550	125	130	0	130	0	0
Wayne State U.	292	217	203	154	129	0	129	0	0
Hobart and William Smith Colleges	293	179	ne	83	127	127	0	0	0
Wright State U.	293	297	231	161	127	0	127	0	0
Central State U.	295	45	122	163	125	0	125	0	0
Providence C.	296	8	103	166	124	0	0	124	0
Brigham Young U., Provo	297	366	213	260	122	0	122	0	0
U. South Carolina, Aiken	298	233	43	0	119	0	40	79	0
California State U., Bakersfield	299	215	208	147	118	0	118	0	0
California State U., Fresno	300	83	48	10	116	0	116	0	0
Wheaton C., Wheaton	300	0	0	90	116	0	116	0	0
Georgia Southern U.	302	168	93	207	115	44	46	25	0
Monmouth U.	303	ne	ne	91	109	0	0	109	0
Indiana U. Pennsylvania	304	155	113	481	107	7	100	0	0
Midwestern State U.	304	ne	ne	ne	107	0	107	0	0
Kean U.	306	ne	ne	ne	105	0	105	0	0
Pennsylvania State U., Behrend	307	1,288	657	899	104	8	8	88	0
SUNY, Geneseo	307	273	153	140	104	0	104	0	0
U. New Haven	307	0	0	0	104	97	0	7	0
Haverford C.	310	0	106	160	103	0	27	76	0
Indiana State U.	310	60	21	137	103	0	103	0	0
Pomona C.	310	366	96	100	103	0	103	0	0
Williams C.	313	162	146	104	99 i	0 i	99 i	0 i	0 i
U.S. Military Academy	314	215	245	111	98	0	0	0	98
Bates C.	315	108	73	83	91	0	91	0	0
Salisbury U.	315	86	78	145	91	0	0	0	91
Weber State U.	315	ne	ne	ne	91	0	91	0	0
California State U., San Bernardino	318	58	38	110	86	0	86	0	0
Central Connecticut State U.	319	80	ne	52	85	0	85	0	0
Alaska Pacific U.	320	198	117	88	83	0	0	1	82
U. Houston-Downtown	321	0	0	0	82	0	82	0	0
Northern Michigan U.	322	31	62	65	81	0	74	0	7
U. Wisconsin-Oshkosh	323	74 i	77 i	76 i	79 i	0 i	79 i	0 i	0 i

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
DePaul U.	324	0		5		22		76		0		76		0		0	
U. Tulsa	324	198		121		39		76		0		0		0		76	
Missouri State U.	326	99		133		33		72		0		72		0		0	
U. San Francisco	327	180		276		170		67		49		18		0		0	
Utah State U.	327	1,038		1,514		642		67		67		0		0		0	
Benedict C.	329	439		532		157		66		0		45		21		0	
California State U., East Bay	330	ne		ne		ne		63		0		63		0		0	
West Texas A&M U.	331	96		75		326		62		62		0		0		0	
Eastern Washington U.	332	42		30		30		58		0		58		0		0	
CUNY, Advanced Science Research Center	333	406		997		3		56		0		0		56		0	
Oregon Institute of Technology	333	0	i	0		75	i	56		0		0		0		56	
U. North Georgia	335	65		20		48		55		1		54		0		0	
U. Wisconsin-Green Bay	336	44	i	33	i	49	i	53	i	0	i	53	i	0	i	0	i
Austin Peay State U.	337	0		0		0		52		0		52		0		0	
Colorado C.	337	131		38		58		52		0		52		0		0	
Oberlin C.	339	488		212		144		51		0		51		0		0	
Northeastern Illinois U.	340	200		150		131		50		0		50		0		0	
Troy U.	341	ne		ne		ne		47		0		0		47		0	
Barnard C.	342	0		0		0		45		0		35		10		0	
SUNY, Oswego	343	31		39		42		43		0		43		0		0	
U. Richmond	343	49		28		25		43		0		43		0		0	
Seattle U.	345	0		4		37		42		0		0		42		0	
U. of the District of Columbia	346	106		51		84		41		0		41		0		0	
CUNY, system office	347	54		100		148		39		39		0		0		0	
U. Louisiana, Monroe	347	124		31		307		39		39		0		0		0	
California State Polytechnic U., Pomona	349	380		231		202		38		0		8		0		30	
U. of Mary Washington	349	ne		18		16		38		0		38		0		0	
Claflin U.	351	101		138		259		37		37		0		0		0	
Franklin and Marshall C.	351	35		144		442		37		0		0		37		0	
U. North Carolina, Asheville	353	419		352		126		36		16		20		0		0	
Andrews U.	354	ne		ne		54		35		0		35		0		0	
CUNY, Lehman C.	354	29		37		0		35		0		35		0		0	
Fort Lewis C.	356	ne		ne		10		34		0		34		0		0	
Loyola Marymount U.	357	8		0		25		32		0		32		0		0	
U. Wisconsin-Superior	358	ne		32		25		30		0		30		0		0	
Claremont McKenna C.	359	88		93		173		29		0		0		29		0	
Suffolk U.	360	0	i	ne		ne		28		0		0		28		0	
U. Wisconsin-Platteville	360	0	i	ne		28	i	28	i	3	i	20	i	0	i	5	i

TABLE 40

Federally financed higher education R&D expenditures in the geosciences, atmospheric sciences, and ocean sciences, ranked by all FY 2020 geosciences, atmospheric sciences, and ocean sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020									
								All geosciences, atmospheric sciences, and ocean sciences		Atmospheric science and meteorology		Geological and earth sciences		Ocean sciences and marine sciences		Geosciences, atmospheric sciences, and ocean sciences nec	
North Carolina Agricultural and Technical State U.	362	214		124		118		26		0		0		0		26	
Mercyhurst U.	363	147	i	ne		21	i	22	i	0	i	22	i	0	i	0	i
Tennessee Technological U.	363	0		20		43		22		0		22		0		0	
Bucknell U.	365	48	i	46		22		21	i	0	i	21	i	0	i	0	i
C. Wooster	365	75		31		12		21		0		21		0		0	
Clarkson U.	365	0		0		0		21		0		21		0		0	
Murray State U.	368	21		30		17		19		0		19		0		0	
Texas A&M International U.	368	89		165		37		19		0		19		0		0	
CUNY, Brooklyn C.	370	415		118		17	i	18		0		18		0		0	
Eastern Michigan U.	370	389		453		285		18		0		18		0		0	
Keene State C.	372	101		ne		39		16		0		0		16		0	
Long Island U.	373	0		0		26		15		0		15		0		0	
Western Illinois U.	374	96		93		3		14		0		14		0		0	
Brandeis U.	375	0		0		0		12		0		0		0		12	
Wichita State U.	376	28		15		9		11		0		11		0		0	
Furman U.	377	132		99		16		7		0		7		0		0	
Morehead State U.	377	13		17		7		7		0		7		0		0	
Hamilton C.	379	33		0		3		6		0		0		0		6	
U. Wisconsin-La Crosse	379	0		0		4		6		0		6		0		0	
Prairie View A&M U.	381	0		0		0		5		0		5		0		0	
Albany State U.	382	0		0		0		4		0		0		0		4	
Gallaudet U.	382	5		17		33		4		4		0		0		0	
Ithaca C.	382	ne		ne		ne		4		0		0		4		0	
U. Wisconsin-Eau Claire	382	62		1		5		4		0		4		0		0	
Hofstra U.	386	15		8		11		3		0		0		0		3	
Pennsylvania State U., Harrisburg	386	0		0		5		3		1		2		0		0	
Trinity U.	386	65		27		28		3		0		3		0		0	
U. Wisconsin-Stevens Point	386	2	i	2	i	3	i	3		0		3		0		0	
Alfred U.	390	0		0		0		1		0		0		0		1	
Biola U.	390	0	i	0	i	0	i	1	i	1	i	0	i	0	i	0	i
CUNY, Medgar Evers C.	390	25		0		0		1		0		1		0		0	
Des Moines U.	390	110		140		77		1		0		1		0		0	
Eastern Kentucky U.	390	0		0		0		1		0		0		0		1	
Southern Connecticut State U.	390	151		0		9		1		0		0		1		0	
Stephen F. Austin State U.	390	11		18		25		1		0		1		0		0	
All other surveyed institutions	-	47,804		45,966		1,844		0		0		0		0		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $45,178 thousand in federally financed R&D expenditures in geosciences, atmospheric sciences, and ocean sciences in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	43,099,189	45,611,147	48,256,664	49,640,508	3,626,162	15,761,876	28,026,662	900,697	1,325,111
U. California, San Francisco	1	1,346,383	1,532,722	1,529,156	1,581,411	0	2,358	1,579,053	0	0
U. Pennsylvania	2	1,022,472	1,070,969	1,125,634	1,185,719	1,140	780,497	326,566	0	77,516
Johns Hopkins U.[a]	3	954,186 i	991,451 i	1,053,401 i	1,047,668 i	0 i	311,295 i	736,373 i	0 i	0 i
Duke U.	4	950,245	971,355	1,018,199	990,897	0	245,327	717,323	10,726	17,521
U. California, Los Angeles	5	761,824	917,899	925,447	989,602	0	34,022	955,580	0	0
U. Texas M. D. Anderson Cancer Center	6	825,102	867,391	902,580	981,164	22,868	304,198	654,098	0	0
U. Michigan, Ann Arbor	7	826,506	873,031	955,653	967,660	2,073	266,507	622,140	22,439	54,501
U. Washington, Seattle	8	891,558	954,565	954,062	963,264	281	260,831	660,692	25,112	16,348
U. Pittsburgh, Pittsburgh	9	789,050	863,086	935,756	954,315	373	294,183	659,733	0	26
Yale U.	10	796,670	832,360	912,802	944,439	0	206,929	726,089	11,175	246
U. North Carolina, Chapel Hill	11	798,649	826,287	846,630	868,276	0	167,907	700,352	17	0
U. Wisconsin-Madison	12	707,668	740,883	814,119	839,302	104,300	277,654	451,868	935	4,545
Stanford U.	13	745,123	780,090	837,068	836,401	0	228,842	572,268	1,983	33,308
U. California, San Diego	14	667,478	782,882	819,167	828,401	0	62,532	765,869	0	0
Washington U., Saint Louis	15	672,672	731,083	796,337	824,978	0	359,856	465,122	0	0
Cornell U.	16	678,247	737,271	789,230	822,419	121,012	311,954	370,944	18,509	0
Icahn School of Medicine at Mount Sinai	17	575,448	640,141	722,241	747,014	0	359,900	387,114	0	0
Columbia U. in the City of New York	18	608,053	673,535	727,779	744,239	0	206,509	531,123	4,151	2,456
Emory U.	19	609,481	650,154	727,296	732,893	0	182,193	535,117	0	15,583
U. Minnesota, Twin Cities	20	607,864	635,157	684,938	722,074	74,148	111,883	474,705	55,059	6,279
U. Florida	21	589,755	656,347	689,605	688,091	214,551	125,655	327,963	19,139	783
Baylor C. of Medicine	22	604,952	623,396	651,920	685,641	0	311,546	374,095	0	0
Harvard U.	23	633,462	656,790	704,460	684,127	47	534,656	122,619	2,981 i	23,824 i
New York U.	24	633,746	609,745	630,246	643,638	0	250,446	389,211	0	3,981
Vanderbilt U. and Vanderbilt U. Medical Center	25	542,857	560,124	581,939	625,549	0	183,620	441,313	10	606
Northwestern U.	26	515,893	555,160	604,875	619,270	0	153,629	451,059	0	14,582
U. California, Davis	27	540,861	588,300	593,628	597,962	150,069	218,316	229,577	0	0
U. Texas Southwestern Medical Center	28	461,797	474,260	496,697	595,939	0	214,795	377,001	0	4,143
U. Maryland[b]	29	na	na	601,632	594,114	52,591	166,254	366,476	2,339	6,454
Ohio State U.	30	503,648	506,398	550,461	590,076	67,155	83,715	422,365	11,085	5,756
U. Southern California	31	471,334	579,028	568,194	580,982	0	132,168	427,949	0	20,865

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Alabama, Birmingham	32	491,477	511,345	533,536	542,308	0	132,963	409,345	0	0
U. Colorado Denver and Anschutz Medical Campus	33	463,907	506,173	523,713	536,533	15	10,354	525,897	31	236
Rutgers, State U. New Jersey, New Brunswick	34	446,329	478,476	447,552	518,906	77,405	113,712	319,113	34	8,642
Indiana U., Bloomington	35	364,265	401,303	470,583	518,775	0	123,811	384,331	0	10,633
Texas A&M U., College Station and Health Science Center	36	349,570	342,961	351,403	502,372	186,922	77,408	220,948	13,586	3,508
Scripps Research Institute	37	354,582	396,839	427,734	444,964	0	444,964	0	0	0
U. Cincinnati	38	365,532	390,071	437,494	440,721	0	62,270	363,772	0	14,679
U. Arizona	39	348,497	399,790	426,393	437,147	50,725	212,741	160,542	13,136	3
Oregon Health and Science U.	40	317,049	359,721	403,495	433,917	0	26,551	265,157	799	141,410
U. Virginia, Charlottesville	41	301,356	352,154	385,793	420,679	0	230,231	189,679	769	0
U. Iowa	42	368,252	386,776	385,909	414,459	0	126,870	284,636	0	2,953
U. Utah	43	229,488	391,825 i	343,744 i	402,001 i	0 i	40,013 i	361,988 i	0 i	0 i
Case Western Reserve U.	44	348,315	371,604	377,671	384,857	0	82,470	283,260	0	19,127
Boston U.	45	265,371	272,397	338,089	373,079	0	163,939	208,709	0	431
Rockefeller U.	46	329,655	334,048	332,899	337,377	0	322,734	14,643	0	0
U. Kentucky	47	275,761	294,776	314,547	322,077	69,756	175,026	77,295	0	0
Michigan State U.	48	323,754	340,065	353,934	319,883	112,270	117,715	60,154	14,634	15,110
Uniformed Services U. of the Health Sciences	49	286,621	298,517	406,726	316,838	0	1,525	315,313	0	0
U. Illinois, Chicago	50	277,145	269,169	289,366	314,296	0	81,071	222,385	10,840	0
U. Chicago	51	279,975	274,000	299,549	302,820	0	83,295	219,525	0	0
U. Georgia	52	285,274	262,237	294,353	302,667	122,395	143,796	32,872	317	3,287
U. Miami	53	271,203	274,934	284,045	302,160	0	78,338	218,739	791	4,292
Pennsylvania State U., University Park and Hershey Medical Center	54	260,627	280,091	266,143	291,299	100,221	98,382	90,967	1,729	0
U. California, Irvine	55	201,661	239,122	266,485	289,422	0	114,449	174,686	0	287
Albert Einstein C. of Medicine	56	289,685	297,328	298,824	288,654	0	0	288,654	0	0
U. Massachusetts, Medical School	57	279,884	274,211	281,507	279,096	0	137,103	94,555	0	47,438
U. Texas Health Science Center, Houston	58	246,060	258,411	271,525	273,862	0	54,213	118,123	0	101,526
Medical U. South Carolina	59	262,267	282,253	295,600	272,590	0	62,475	86,364	0	123,751
U. Rochester	60	232,649	244,380	248,086	259,224	0	54,066	205,158	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Berkeley	61	224,599	234,055	239,459	258,228	5,506	130,392	55,230	67,100	0
Medical C. Wisconsin	62	209,618	222,767	243,500	255,783	0	83,882	171,901	0	0
Purdue U., West Lafayette	63	213,713	211,371	237,317	243,953	123,324	34,790	85,839	0	0
U. Illinois, Urbana-Champaign	64	199,917	206,379	222,994	241,661	79,576	77,458	2,845	81,782	0
SUNY, U. Buffalo	65	241,186	244,106	249,349	241,467	0	88,070	150,541	0	2,856
North Carolina State U.	66	234,319	231,243	244,235	240,399	108,002	120,671	0	0	11,726
Wake Forest U.	67	179,098	188,702	230,592	236,154	0	3,538	232,490	126	0
Colorado State U., Fort Collins	68	131,900	161,006	211,774	231,734	61,780	39,769	24,849	101,604	3,732
U. Kansas	69	187,893	202,119	212,241	226,786	735	62,277	154,245	8,906	623
U. Missouri, Columbia	70	197,347	198,676	210,550	220,890	71,875	50,323	78,021	12,922	7,749
Temple U.	71	202,822	206,129	218,527	216,388	30	43,913	93,790	0	78,655
Virginia Commonwealth U.	72	167,275	181,220	185,744	206,550	0	53,656	137,007	0	15,887
U. Texas Health Science Center, San Antonio	73	169,200	179,219	188,483	202,572	0	67,851	112,594	0	22,127
U. Nebraska, Medical Center	74	171,491	177,245	194,455	202,406	0	105,620	96,786	0	0
Virginia Polytechnic Institute and State U.	75	198,911	198,326	198,424	199,798	84,380	40,276	47,236	25,921	1,985
Washington State U.	76	175,640	175,704	193,878	196,649	107,295	35,845	49,070	1,974	2,465
Wayne State U.	77	175,917	179,692	186,531	182,757	0	24,007	154,653	0	4,097
George Washington U.	78	160,836	173,664	175,830	179,803	0	52,902	126,901	0	0
U. Texas Medical Branch	79	183,773	179,303	173,776	179,403	0	137,316	42,087	0	0
U. Arkansas for Medical Sciences	80	128,508	139,187	153,135	174,549	0	67,447	105,955	0	1,147
Thomas Jefferson U.	81	142,569	148,573	170,458	171,207	0	74,942	96,265	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	178,006	179,025	195,353	170,704	0	84,528	83,046	813	2,317
U. Oklahoma, Norman and Health Science Center	83	145,939	140,602	148,621	164,967	0	43,605	119,319	0	2,043
U. South Florida, Tampa	84	349,420	207,171	200,585	164,666	0	90,898	72,093	0	1,675
Tulane U.	85	137,828	151,823	152,554	161,642	0	39,053	41,445	133	81,011
U. Nebraska, Lincoln	86	152,195	156,100	161,097	161,499	100,056	30,234	16,883	14,326	0
U. Louisville	87	144,917	144,645	141,409	158,677	0	60,608	91,134	109	6,826
U. Connecticut	88	160,162	155,958	165,087	157,618	8,613	75,806	64,335	3,203	5,661
Georgetown U.	89	141,872	142,875	155,013	155,197	0	14,827	138,679	0	1,691
Louisiana State U., Baton Rouge	90	147,917	154,348	160,443	155,187	88,320	56,483	928	9,456	0
U. New Mexico	91	149,828	161,209	148,618	148,158	0	28,740	115,028	3,768	622

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Oregon State U.	92	131,061	135,466	136,589	143,505	75,087	38,938	7,447	21,791	242
U. Vermont	93	96,175	107,706	111,873	142,081	18,247	54,565	64,224	5,045	0
Tufts U.	94	173,969	71,546	114,635	136,826	5,500	92,119	31,949	39	7,219
Brown U.	95	104,671	122,607	130,419	134,751	0	57,280	41,744	0	35,727
U. Texas, Austin	96	94,334	119,249	117,716	130,377	58	62,802	62,010	2,526	2,981
Kansas State U.	97	129,924	134,291	133,246	127,024	95,332	30,940	752	0	0
Massachusetts Institute of Technology	98	129,735	138,075	143,017	126,648	861	67,446	20,529	509	37,303
Iowa State U.	99	143,406	151,654	149,764	123,853	44,790	39,072	15,103	7,157	17,731
U. Hawaii, Manoa	100	121,878	129,544	130,373	123,649	13,962	53,100	47,531	1,840	7,216
SUNY, Stony Brook U.	101	99,548	106,832	117,953	121,070	0	61,121	59,949	0	0
Mississippi State U.	102	118,441	112,967	118,479	119,753	89,819	10,917	1,738	17,170	109
Cold Spring Harbor Laboratory	103	97,288	115,870	126,773	115,051	1,657	113,394	0	0	0
Auburn U., Auburn	104	85,135	101,567	104,935	110,768	72,560	15,224	10,995	1,143	10,846
West Virginia U.	105	109,929	103,696	104,435	108,264	13,752	25,158	58,047	9,686	1,621
Arizona State U.	106	106,171	125,014	101,129	103,558	0	63,293	39,268	457	540
Augusta U.	107	99,383	98,925	96,123	103,554	0	40,513	60,177	0	2,864
North Dakota State U.	108	103,145	100,736	104,204	101,693	77,925	5,106	8,713	9,949	0
U. South Carolina, Columbia	109	99,356	77,248	70,689	98,789	0	18,374	80,412	3	0
U. Tennessee, Health Science Center	110	72,682	78,204	95,852	98,345	0	22,245	72,349	0	3,751
U. California, Riverside	111	81,455	85,128	91,835	95,431	21,969	60,674	12,788	0	0
Rush U.	112	70,846	86,277	93,701	92,494	0	13,822	78,672	0	0
Princeton U.	113	75,292	86,341	95,882	91,903	0	81,137	0	10,766	0
California Institute of Technology	114	77,964	80,318	87,505	89,626	0	89,580	46	0	0
Drexel U.	115	81,990	96,074	93,762	89,027	0	38,200	47,466	3,361	0
U. Louisiana, Lafayette	116	40,408	62,543	73,146	87,621	262	68,528	18,497	0	334
U. Mississippi	117	83,983	91,251	103,882	86,130	96	15,866	67,047	0	3,121
U. Tennessee, Knoxville[c]	118	16,142	23,092	24,065	84,619	42,734	22,643	9,977	9,265	0
U. Arkansas, Fayetteville	119	84,423	88,589	89,593	77,569	65,950	6,357	3,213	2,049	0
Oklahoma State U., Stillwater	120	71,053	80,716	76,701	75,506	36,886	19,956	8,614	10,050	0
U. Idaho	121	67,050	68,744	71,656	73,933	41,232	22,764	121	9,725	91
Clemson U.	122	53,479	57,408	62,391	71,776	23,699	28,361	7,465	3	12,248
Montana State U., Bozeman	123	65,910	65,459	72,765	71,440	40,695	19,994	10,030	186	535

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Nevada, Reno	124	54,031	61,782	64,307	71,378	8,439	36,791	19,029	6,161	958
Georgia State U.	125	75,634	76,083	70,211	66,831	596	50,131	13,803	0	2,301
U. Montana, Missoula	126	57,185	54,418	61,959	66,817	242	22,464	25,707	18,404	0
U. Delaware	127	62,222	55,454	60,535	66,097	32,048	5,344	28,705	0	0
Florida State U.	128	47,724	54,515	61,515	64,315	296	22,836	37,353	2,677	1,153
U. Massachusetts, Amherst	129	74,257	66,052	67,652	64,246	16,454	25,906	10,047	7,497	4,342
SUNY, U. Albany	130	74,020	93,050	101,768	60,025	0	27,543	32,478	0	4
Van Andel Research Institute	131	44,578 i	55,171	61,738	58,982	0	58,982	0	0	0
Saint Louis U.	132	48,824	50,538	54,582	58,836	0	27,623	31,213	0	0
Utah State U.	133	57,750	59,473	61,698	56,017	34,268	4,657	2,526	14,566	0
Florida International U.	134	46,662	46,906	51,676	55,877	84	39,760	13,961	2,072	0
U. New Hampshire	135	46,616	49,115	50,431	52,822	18,571	11,697	15,276	7,278	0
U. Colorado Boulder	136	37,296	41,637	51,990	52,074	1,448	41,081	5,377	1,137	3,031
South Dakota State U.	137	46,219	49,014	53,751	49,659	38,028	3,689	2,684	3,414	1,844
Texas Tech U.	138	48,789	51,017	52,335	49,230	26,571	12,709	5,204	4,746	0
U. Wyoming	139	46,842	41,272	41,934	47,073	12,086	14,659	2,320	11,018	6,990
U. California, Office of the President	140	26,556	38,811	53,460	46,725	2,503	0	40,585	0	3,637
Cleveland State U.	141	50,247	52,257	47,567	46,618	0	43,464	2,797	0	357
U. North Texas, Health Science Center	142	48,476	49,029	49,099	46,526	0	17,823	28,703	0	0
Georgia Institute of Technology	143	22,394	35,690	33,854	43,699	3,820	18,410	20,316	0	1,153
Louisiana State U., Health Sciences Center, New Orleans	144	40,310	38,989	40,914	43,419	0	19,533	23,192	0	694
New Mexico State U.	145	35,258	37,074	40,821	43,340	31,672	9,867	449	28	1,324
Texas Tech U., Health Sciences Center	146	38,657	36,784	42,959	43,102	0	21,528	21,574	0	0
SUNY, Upstate Medical U.	147	35,551	36,674	38,091	41,557	0	14,671	26,810	0	76
U. Maine	148	35,527	36,865	38,713	39,354	18,398	10,949	385	9,622	0
Northern Arizona U.	149	32,258	31,974	36,245	38,862	2,273	23,741	5,180	6,508	1,160
U. Puerto Rico, Medical Sciences Campus	150	42,423	41,216	44,985	37,081	0	0	37,081	0	0
U. South Alabama	151	31,113	31,779	40,597	36,664	0	87	18,893	0	17,684
U. Texas, Dallas	152	30,484	31,871	35,971	35,986	0	6,377	29,609	0	0
U. Oregon	153	33,718	36,242	35,644	35,936	0	33,631	1,004	483	818
Loyola U., Chicago	154	35,112	34,087	33,699	35,073	0	15,804	18,529	483	257

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Nevada, Las Vegas	155	17,404	22,193	31,434	34,733	65	12,763	21,019	208	678
U. Houston	156	31,631	33,476	39,727	34,394	40	12,625	21,435	255	39
Southern Illinois U., Carbondale	157	36,848	38,104	32,432	33,480	11,793	4,876	16,628	0	183
East Carolina U.	158	20,221	26,176	35,936	33,206	79	2,842	30,285	0	0
SUNY, Downstate Medical Center	159	31,873	34,661	36,015	33,204	0	32,389	815	0	0
George Mason U.	160	18,574	17,982	16,438	33,163	76	25,142	7,187	724	34
Northeastern U.	161	30,366	31,203	31,181	32,626	0	14,718	10,384	0	7,524
U. Central Florida	162	24,620	26,706	34,043	32,376	1	14,746	17,629	0	0
U. North Dakota	163	31,523	30,647	28,781	31,526	0	17,478	14,048	0	0
U. California, Santa Barbara	164	35,439	37,682	34,842	30,838	0	24,077	0	6,761	0
Morehouse School of Medicine	165	35,454	33,215	31,289	29,813	0	0	29,813	0	0
U. Alaska, Fairbanks	166	28,705	30,257	26,416	29,409	10,148	12,603	431	6,015	212
Florida Atlantic U.	167	25,082	23,880	25,420	28,725	73	16,997	7,865	0	3,790
U. Texas, El Paso	168	27,585	27,452	30,643	28,552	0	16,280	6,503	921	4,848
U. Texas Rio Grande Valley	169	18,141	15,776	25,619	28,351	1,187	4,093	19,143	137	3,791
San Diego State U.	170	29,409	28,003	28,629	27,880	0	14,602	12,357	921	0
U. Notre Dame	171	28,427	27,327	27,517	27,750	424	27,095	231	0	0
U. Toledo	172	23,303	23,752	27,889	27,748	26	5,710	20,743	0	1,269
U. Rhode Island	173	22,192	24,101	24,563	27,699	3,400	18,161	2,397	0	3,741
U. California, Santa Cruz	174	25,493	25,002	26,486	27,565	3,247	24,318	0	0	0
SUNY, C. of Environmental Science and Forestry	175	22,681	23,433	26,495	26,083	3,551	9,281	0	12,861	390
U. Texas, San Antonio	176	17,353	16,720	22,455	25,911	0	23,733	2,014	0	164
Howard U.	177	26,573	26,083	24,940	25,750	0	5,312	18,156	0	2,282
Louisiana State U., Health Sciences Center, Shreveport	178	22,560	24,463	26,262	25,321	0	10,644	13,911	0	766
Loma Linda U.	179	21,843	22,919 i	24,405 i	25,077 i	0 i	9,744 i	14,865 i	0 i	468 i
Albany Medical C.	180	20,443	21,187	23,028	23,510	0	17,150	6,360	0	0
Brandeis U.	181	30,140 i	24,400	22,063	23,263	0	21,190	2,047	0	26
Florida A&M U.	182	21,747	18,634	21,837	21,450	10,092	67	8,427	317	2,547
U. Texas Health Science Center, Tyler	183	16,292	17,949 i	19,606 i	21,265	0	21,265	0	0	0
Indiana U.-Purdue U., Indianapolis	184	18,607	19,393	20,263	21,183	0	7,034	13,557	0	592
Eastern Virginia Medical School	185	28,671	30,010	27,064	20,870	0	9,968	10,902	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
U. Missouri, Kansas City	186	14,461		13,616		16,974		20,183		0		5,780		14,403		0		0	
New York Medical C.	187	15,637	i	8,141	i	19,398	i	20,137		0		7,391		7,585		0		5,161	
New Jersey Institute of Technology	188	16,473		27,571		27,910		19,871		0		2,209		17,662		0		0	
U. Minnesota, Duluth	189	19,522		19,392		19,286		19,580		0		1,090		1		18,489		0	
U. Texas, Arlington	190	18,039		12,100		18,118		18,430		0		8,478		9,511		441		0	
U. South Dakota	191	16,539		18,390		18,568		17,172		0		15,109		1,743		191		129	
Texas A&M U.-Kingsville	192	15,082		14,907		16,431		16,722		15,291		1,386		0		45		0	
North Carolina Agricultural and Technical State U.	193	18,980		17,349		16,756		16,663		12,495		1,612		0		2,556		0	
Marshall U.	194	13,445		16,410		15,738		16,302		0		3,800		12,186		0		316	
Rice U.	195	13,593		14,193		13,966		16,008		0		16,008		0		0		0	
Northeast Ohio Medical U.	196	18,425		17,846		17,625		15,579		0		8,678		6,717		0		184	
Ohio U.	197	21,365	i	17,098	i	15,739		15,375		0		7,691		7,158		0		526	
Creighton U.	198	18,227	i	14,925	i	17,527	i	14,845	i	0	i	5,976	i	8,797	i	72	i	0	i
Carnegie Mellon U.	199	13,125		12,376		15,366		14,696		476		12,566		824		0		830	
Rosalind Franklin U. of Medicine and Science	200	16,928		16,685		16,011		14,516		0		12,825		1,691		0		0	
Old Dominion U.	201	13,104		14,020		14,668		14,463		0		9,611		4,585		267		0	
Delaware State U.	202	11,479		11,406		13,791		14,314	i	7,076	i	6,838	i	275	i	1	i	124	i
Meharry Medical C.	203	16,782		16,980		18,286		13,870		0		13,870		0		0		0	
Langston U.	204	10,548	i	10,417	i	10,287		13,843		10,615		1,650		1,578		0		0	
Charles R. Drew U. of Medicine and Science	205	15,652		11,490		13,739		13,682		0		0		13,682		0		0	
Ponce Health Sciences U.	206	8,664		7,857		11,390		13,566		0		0		13,566		0		0	
Portland State U.	207	11,670		13,266		15,844		13,547		46		7,666		2,224		3,611		0	
Wright State U.	208	16,237		15,403		16,448		13,515		0		7,780		5,732		0		3	
San Francisco State U.	209	11,163		11,292		12,886		13,391	i	0	i	12,512	i	191	i	601	i	87	i
Nova Southeastern U.	210	12,411		13,414		14,236		13,298		0		0		13,298		0		0	
U. Nebraska, central administration	211	ne		8,962		12,205		13,089		2,242		9,514		1,333		0		0	
Rutgers, State U. New Jersey, Newark	212	12,005		9,789		10,800		13,014		0		12,676		338		0		0	
SUNY, Binghamton U.	213	12,731		14,340		12,165		12,877		0		4,595		8,035		66		181	
U. North Texas, Denton	214	9,274		10,703		12,644		12,745		479		10,805		1,354		0		107	
Tennessee State U.	215	12,075		13,330		11,924		12,466		10,391		1,535		65		85		390	
Texas State U.	216	7,461		10,089		11,304		12,417		376		7,213		2,257		0		2,571	

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Massachusetts, Lowell	217	13,892	9,600	8,730	12,056	0	5,523	5,198	725	610
Miami U.	218	6,604	8,597	11,143	12,044	42	5,852	5,586	0	564
Marquette U.	219	9,875	10,388	13,155	11,696	84	5,871	4,570	0	1,171
U. Maryland, Baltimore County	220	3,498	4,888	11,834	11,478	846	9,422	934	50	226
U. Southern Mississippi	221	7,699	10,079	10,316	11,248	0	8,948	2,300	0	0
CUNY, Queens C.	222	9,545	10,167	10,992	11,236	0	1,250	9,978	0	8
Rowan U.	223	6,569	7,700	11,107	11,115	0	3,264	7,836	0	15
CUNY, Graduate School of Public Health and Health Policy	224	na	7,290	7,882	10,899	154	688	10,057	0	0
Syracuse U.	225	11,722	10,721	12,095	10,724	87	7,080	2,785	772	0
Boise State U.	226	9,022	8,838	9,858	10,616	299	8,089	1,343	885	0
Midwestern U.	227	9,207	10,173	10,343	10,479	33	6,539	3,907	0	0
U. Memphis	228	9,160	11,041	10,521	10,395	232	4,754	5,192	0	217
Texas Tech U., Health Sciences Center, El Paso	229	15,526	12,145	11,649	10,294	0	2,280	8,014	0	0
U. Wisconsin-Milwaukee	230	7,690	7,828	8,637	10,279	0	4,150	6,129	0	0
East Tennessee State U.	231	8,069	9,373 i	10,721 i	10,103 i	3 i	5,949 i	4,145 i	0 i	6 i
Illinois Institute of Technology	232	10,723	11,310	11,618	9,993	863	8,046	1,023	0	61
Duquesne U.	233	11,088	10,603	9,595	9,914	0	3,648	6,266	0	0
Boston C.	234	13,811	12,494	13,514	9,824	0	8,248	1,576	0	0
U. Guam	234	5,994	8,303	8,964	9,824	2,384	291	2,408	4,728	13
U. California, Merced	236	6,353	7,725	10,943	9,333	0	7,563	1,770	0	0
Brigham Young U., Provo	237	10,858	10,262	9,121	9,218	2,559	5,643	946	0	70
U. Maryland Center for Environmental Science	238	6,945	9,772	10,614	9,194	997	1,978	0	6,164	55
Central Michigan U.	239	7,730	8,240	8,603	9,145	32	3,874	4,390	849	0
U. Alabama, Tuscaloosa	240	5,668	7,297	8,452	8,985	0	3,602	5,383	0	0
CUNY, Hunter C.	241	9,123	6,221	7,408	8,957	0	8,550	407	0	0
U. Massachusetts, Boston	242	11,478	8,722	9,692	8,950	40	4,610	3,320	980	0
Mercer U.	243	5,172	8,058	8,298	8,624	0	235	5,307	0	3,082
Kent State U.	244	5,771	5,611	8,388	8,335	0	6,330	1,965	35	5
Prairie View A&M U.	245	8,106	7,755	8,105	8,280	7,719	379	48	134	0
Southern Illinois U., Edwardsville	246	7,443	8,931	10,357	8,190	3,324	1,047	3,799	0	20
Tuskegee U.	247	9,308 i	7,564	8,427	8,145	5,871	2,274	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
California Polytechnic State U., San Luis Obispo	248	6,773	6,326	8,979	7,929	3,201	1,009	2,899	820	0
Alcorn State U.	249	10,484	8,877	8,664	7,918	7,810	0	108	0	0
Kentucky State U.	250	7,654 i	8,606	8,139	7,806	7,732	0	0	74	0
Oklahoma State U., Center for Health Sciences	251	1,191	2,497	4,815	7,616	0	452	7,164	0	0
U. North Carolina, Greensboro	252	5,473	6,221	8,554	7,582	0	4,352	3,230	0	0
Edward Via C. of Osteopathic Medicine	253	8,119	7,601	7,225	7,475	0	1	7,474	0	0
Baylor U.	254	5,503	5,839	5,641	7,456	221	4,523	2,267	445	0
U. Arkansas, Pine Bluff	255	6,946	7,033	7,878	7,415	7,218	74	0	0	123
Chapman U.	256	4,204	5,505	7,139	7,307	102	4,374	2,761	0	70
Humboldt State U.	257	5,019	7,549	7,570	7,291	163	1,302	246	5,510	70
U. Missouri, Saint Louis	258	4,345	4,163	6,824	7,254	11	1,567	5,458	218	0
North Carolina Central U.	259	6,468	6,916	8,401	7,233	0	6,873	360	0	0
CUNY, City C.	260	9,906	9,336	8,010	7,167	0	2,752	4,387	0	28
U. of the Virgin Islands	261	10,557	10,251	9,712	7,103	2,351	1,554	1,157	2,041	0
U. North Carolina, Wilmington	262	6,682	6,991	7,782	7,090	565	4,791	481	1,253	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	263	6,736	5,854	5,488	6,999	0	5,859	1,136	4	0
Texas A&M U.-Corpus Christi	264	3,163	4,650	5,669	6,975	17	6,377	22	447	112
U. Alaska, Anchorage	265	7,514	7,822	8,863	6,857	294	4,665	129	952	817
California State U., Northridge	266	6,196	8,561	10,053	6,822	252	3,875	0	0	2,695
Arkansas State U., Jonesboro	267	5,227	6,184	6,659	6,636	1,897	4,707	32	0	0
Long Island U.	268	1,499	1,648	4,561	6,526	0	621	5,905	0	0
Tarleton State U.	269	6,081	6,262	6,594	6,429	5,488	249	350	228	114
Virginia State U.	270	5,807	6,820	6,886	6,123	5,920	24	179	0	0
Rensselaer Polytechnic Institute	271	5,448	5,431	5,384	6,102	0	6,102	0	0	0
Clark Atlanta U.	272	5,536	6,172	6,360	6,017	0	6,017	0	0	0
U. New England	273	6,248	5,530	5,864	5,904	22	3,742	2,080	60	0
U. Nebraska, Omaha	274	5,343	4,641	4,020	5,892	84	2,254	3,445	31	78
Kennesaw State U.	275	3,611	2,394	3,466	5,740	16	4,759	965	0	0
Oakland U.	276	5,823	5,376	7,041	5,653	0	3,323	1,603	0	727
Central State U.	277	1,217	2,816	2,923	5,451	5,047	59	0	266	79
Lincoln U., Jefferson City	278	4,497	3,709	4,089	5,404	4,516	227	0	654	7

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
West Virginia State U.	279	5,762		5,748		5,424		5,199		3,481		872		0		846		0	
Alabama A&M U.	280	12,345	i	9,946	i	7,546	i	5,142	i	502	i	1,521	i	2,991	i	128	i	0	i
Morgan State U.	281	4,505		4,027		4,197		5,061		224		2,906		1,931		0		0	
U. Denver	282	2,836		3,838		4,388		4,889		0		4,591		0		298		0	
Western U. of Health Sciences	283	5,740		4,063		3,936		4,866		533		4,010		323		0		0	
U. of Health Sciences and Pharmacy in St. Louis	284	ne		ne		ne		4,835		0		0		4,835		0		0	
California State U., Long Beach	285	3,130		5,238		5,335		4,816		0		2,110		2,704		0		2	
CUNY, Advanced Science Research Center	286	698		1,709		3,935		4,679		0		3,733		0		869		77	
Fort Valley State U.	287	5,085		3,593		4,321		4,581		4,452		129		0		0		0	
U. North Carolina, Charlotte	288	3,451		4,314		5,534		4,512		0		2,608		1,904		0		0	
Southern U. and A&M C., Agricultural Research and Extension Center	289	5,000	i	5,296		5,448		4,475		3,159		298		662		356		0	
Teachers C., Columbia U.	290	1,959		3,554		4,651		4,455		0		0		0		0		4,455	
Roseman U. of Health Sciences	291	4,167		3,973		4,176	i	4,380		0		0		4,380		0		0	
U. Detroit Mercy	292	2,418		4,353		4,796		4,337		0		4,019		318		0		0	
U. Wisconsin-Stevens Point	293	3,080	i	3,492	i	3,903	i	4,317		1,029		214		23		3,051		0	
California State U., Fresno	294	4,331		4,719		4,404		4,306		3,277		449		572		0		8	
U. Hawaii, Hilo	295	5,546		4,753		4,212		4,149		1,020		1,548		851		225		505	
Lehigh U.	296	2,335		2,814		4,448		4,121		0		4,073		0		0		48	
Idaho State U.	297	4,051		4,054		3,638		3,936		0		2,459		1,477		0		0	
U. Central del Caribe	298	5,634		4,111		3,953		3,931		0		0		3,931		0		0	
Xavier U. Louisiana	299	3,814		3,986		3,255		3,929		0		1,070		2,859		0		0	
Pacific U.	300	3,747		3,124		5,294		3,852		0		160		3,202		48		442	
Michigan Technological U.	301	3,947		3,788		4,323		3,804		0		2,392		1,390		0		22	
Albany C. of Pharmacy and Health Sciences	302	2,561		2,730		3,381		3,765		0		2,732		1,033		0		0	
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	303	3,285		3,502		3,769		3,737		0		3,587		150		0		0	
Des Moines U.	304	1,215		1,137		1,406		3,637		261		2,809		567		0		0	
U. Puerto Rico, Rio Piedras	305	3,705		2,841		3,728		3,617		0		3,590		27		0		0	
Fisk U.	306	845		2,162		4,520		3,585		0		3,427		113		32		13	
West Texas A&M U.	307	3,118		2,782		2,915		3,570		3,117		21		0		432		0	
Desert Research Institute	308	2,432		3,232		2,993		3,539		0		3,539		0		0		0	

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Touro U.	308	3,122	3,233	3,543	3,539	0	2,514	0	0	1,025
Eastern Michigan U.	310	1,304	1,433	2,322	3,498	0	1,350	1,872	274	2
SUNY, C. of Optometry	311	3,304	3,120	2,968	3,477	0	0	3,477	0	0
Villanova U.	312	2,524	1,756	2,381	3,438	0	2,133	1,305	0	0
Philadelphia C. of Osteopathic Medicine	313	2,969	3,059	3,162	3,360	0	945	2,415	0	0
Montclair State U.	314	1,706	2,436	2,586	3,277	17	1,422	1,206	632	0
California State U., Monterey Bay	315	3,490	3,668	3,887	3,225	1,164	2,006	49	0	6
Illinois State U.	316	2,275	2,682	3,688	3,183	184	2,008	991	0	0
U. of the Sciences Philadelphia	317	3,459	2,941	3,096	3,181	0	859	2,304	0	18
U. Alabama, Huntsville	318	1,864	2,528	2,815	3,170	2	2,046	1,122	0	0
MGH Institute of Health Professions	319	1,839	2,957	3,494	3,014	0	1,427	1,587	0	0
Wichita State U.	320	1,339	1,918	2,850	2,980	0	2,959	21	0	0
Western Kentucky U.	321	3,223	3,209	3,422	2,888	581	1,307	686	0	314
U. Arkansas, Little Rock	322	2,295	1,647	2,483	2,878	0	2,833	35	10	0
New York Institute of Technology	323	2,224	2,560	4,479	2,757	0	283	2,474	0	0
Ball State U.	324	2,572	2,615	2,880	2,738	0	1,412	1,171	155	0
William & Mary	325	2,365	3,463	2,775	2,694	453	2,241	0	0	0
Texas Southern U.	326	2,470	2,035	2,695	2,673	0	2,673	0	0	0
California State Polytechnic U., Pomona	327	3,182	3,700	2,983	2,656	838	1,818	0	0	0
U. Oklahoma, Tulsa	328	1,626	2,409	2,328	2,633	0	0	2,633	0	0
U. Maryland, Eastern Shore	329	2,017	201	721	2,572	1,885	269	259	159	0
CUNY, Brooklyn C.	330	1,693	1,740	2,429 i	2,519	0	1,792	660	0	67
Louisiana Tech U.	331	2,171	2,303	2,565	2,510	841	753	449	0	467
Yeshiva U.	332	3,258	3,302	2,420	2,477	0	0	2,477	0	0
Murray State U.	333	1,975	2,368	3,136	2,475	76	2,399	0	0	0
California State U., Fullerton	334	2,339	2,515	2,843	2,440	223	1,395	707	115	0
Winston-Salem State U.	335	866	884	650	2,400	0	684	1,716	0	0
Salisbury U.	336	1,547	1,850	2,004	2,366	0	366	1,995	0	5
St. John's U., New York	337	1,117	2,057	1,763	2,324	0	998	1,326	0	0
Northern Illinois U.	338	1,008	3,552	4,306	2,319	0	436	1,854	29	0
Tennessee Technological U.	339	2,154	1,202	2,025	2,306	427	1,167	96	615	1
California State U., Los Angeles	340	869	1,794	2,989 i	2,299	0	1,949	257	0	93

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Texas Woman's U.	341	2,450	2,451	2,121	2,259	28	562	1,669	0	0
U. of the District of Columbia	342	1,872	1,804	2,600	2,157	2,157	0	0	0	0
Southern Methodist U.	343	1,094	1,305	1,533	2,144	0	2,144	0	0	0
Jackson State U.	344	3,549	2,140	1,902	2,129	0	1,045	1,084	0	0
U. Louisiana, Monroe	345	1,869	1,805	1,795	2,104	29	410	1,665	0	0
Worcester Polytechnic Institute	345	1,873	2,049	1,791	2,104	0	2,104	0	0	0
U. West Florida	347	2,531	2,129	1,511	2,081	0	1,690	109	0	282
Colorado School of Mines	348	3,033	2,282	2,324	2,073	382	1,549	132	10	0
Framingham State U.	349	1,833	73	ne	2,060	0	0	2,060	0	0
Middle Tennessee State U.	350	2,065	1,597	1,679	2,029	378	1,359	112	180	0
U. Wisconsin-Superior	351	ne	2,984	2,219	2,026	0	1	0	2,025	0
Azusa Pacific U.	352	2,291	2,685	995	2,002	0	126	1,876	0	0
Catholic U. of America	353	2,116	2,503	2,368	2,000	0	1,333	667	0	0
Alabama State U.	354	2,253	2,434	2,577	1,989	0	1,747	0	0	242
SUNY, Polytechnic Institute	355	3,218	2,260	1,995	1,977	0	1,977	0	0	0
Clark U.	356	739	1,225	2,057	1,953	797	1,134	0	11	11
U. Nebraska, Kearney	356	1,985	1,439	1,810	1,953	178	775	632	368	0
Grand Valley State U.	358	654	1,387	1,338	1,914	0	667	1,216	0	31
Western Illinois U.	358	910	1,214	1,413	1,914	1,062	852	0	0	0
Palmer C. of Chiropractic, Davenport	360	1,189	1,600	1,650	1,900	0	0	0	0	1,900
California State U., San Marcos	361	2,412	2,540	1,950	1,888	0	1,451	324	0	113
American U.	362	2,314	1,703	1,854	1,886	0	1,235	0	0	651
U. Akron	363	1,611	1,633	1,928	1,882	0	1,699	183	0	0
U. Puerto Rico, Mayaguez	364	2,725	2,027	2,526	1,881	814	1,067	0	0	0
Appalachian State U.	365	1,709	1,573	1,663	1,879	87	840	409	543	0
Stephen F. Austin State U.	366	2,262	1,744	1,992	1,848	1,695	57	92	0	4
James Madison U.	367	822	1,130	1,146	1,844	12	1,099	631	93	9
Missouri State U.	368	1,226	1,468	1,646	1,812	578	651	0	525	58
Smith C.	369	2,511	2,646	2,368	1,783	0	1,657	126	0	0
Bowling Green State U.	370	1,257	1,146	1,268	1,766	398	909	304	155	0
Hampton U.	371	2,095	1,290	1,777	1,745	0	783	962	0	0
Oregon Institute of Technology	372	189 i	59 i	1,940 i	1,741 i	0 i	765 i	777 i	67 i	132 i

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Tougaloo C.	372	2,120	2,012	1,444	1,741	0	503	1,238	0	0
Sam Houston State U.	374	744	1,572	2,297	1,730	330	1,382	18	0	0
Colorado State U., Pueblo	375	ne	ne	1,693	1,703	0	1,676	0	0	27
Georgia Southern U.	376	4,680	2,881	2,331	1,664	34	5	1,173	289	163
Naval Postgraduate School	377	518	1,313	1,939	1,655	0	1,185	200	0	270
St. Edward's U.	378	2,674	1,038	2,210	1,620	275	825	0	520	0
Sul Ross State U.	379	1,576	2,011	1,578	1,595	123	0	0	1,472	0
Keck Graduate Institute	380	1,859 i	1,367 i	1,537 i	1,578 i	0 i	648 i	930 i	0 i	0 i
Reed C.	381	803	1,754	1,588	1,573	0	1,573	0	0	0
Hobart and William Smith Colleges	382	392	ne	1,335	1,563	11	79	0	1,473	0
U. North Carolina, Asheville	383	1,014	1,713	1,271	1,559	0	493	718	292	56
San Jose State U.	384	1,310	1,073	1,133	1,542	0	1,542	0	0	0
Fayetteville State U.	385	909	1,354	1,236	1,483	0	408	1,075	0	0
U. Massachusetts, Dartmouth	386	2,217	2,304	2,062	1,467	0	1,390	77	0	0
California State U., Chico	387	808	1,169	1,089	1,466	1,224	184	0	0	58
Wellesley C.	388	862	1,099	1,515	1,455	1	1,454	0	0	0
Fordham U.	389	2,373	2,382	1,819	1,435	0	1,435	0	0	0
National U. of Natural Medicine	390	921	ne	1,245	1,428	0	0	1,428	0	0
U. North Florida	391	1,137	1,347	1,373	1,388	0	907	481	0	0
South Carolina State U.	392	5,867	6,234 i	1,318	1,367 i	0 i	1,175 i	192 i	0 i	0 i
Marshall B. Ketchum U.	393	1,512 i	1,451 i	1,430 i	1,357 i	0 i	0 i	1,357 i	0 i	0 i
Mercyhurst U.	394	0 i	ne	1,315 i	1,350 i	0 i	546 i	804 i	0 i	0 i
Austin Peay State U.	395	590	826	912	1,333	0	60	3	947	323
California State U., Sacramento	396	1,072	1,368	1,324	1,328	0	682	325	321	0
Dillard U.	397	4,529	4,889	1,776	1,323	0	1,099	224	0	0
Southern Connecticut State U.	398	237	598	841	1,308	37	357	907	7	0
West Virginia School of Osteopathic Medicine	399	ne	ne	ne	1,303	0	629	669	0	5
U. Texas, Tyler	400	933	979	1,378	1,302	146	541	440	175	0
CUNY, C. Staten Island	401	1,087	1,163 i	923	1,277	0	554	723	0	0
Indiana U. Pennsylvania	402	925	985	1,474	1,251	0	1,107	144	0	0
Hawaii Pacific U.	403	1,327	1,354	1,265	1,248	654	594	0	0	0
Bates C.	404	765	622	845	1,247	0	1,166	7	9	65

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
Gallaudet U.	405	3,379		2,247		1,311		1,239		0		853		384		2		0	
U. Northern Colorado	405	1,859		1,856		1,679		1,239		0		896		311		0		32	
Rochester Institute of Technology	407	561		871		903		1,238		0		1,238		0		0		0	
Saginaw Valley State U.	408	539		998		1,381		1,229		20		62		1,145		0		2	
William Paterson U.	409	425		926		1,040		1,210		0		512		650		22		26	
SUNY, C. Brockport	410	986		1,132		846		1,197		127		299		12		759		0	
Bowdoin C.	411	1,344		1,473		1,476		1,196		0		1,196		0		0		0	
California State U., Stanislaus	412	1,104		1,027		910		1,169		0		1,163		6		0		0	
Pace U.	413	795		905		913		1,166		0		431		378		0		357	
New England C. of Optometry	414	ne		1,026		1,223		1,150		0		0		1,150		0		0	
C. Charleston	415	1,563		1,095		1,366		1,128		0		882		146		100		0	
Western Carolina U.	415	502		550		1,095		1,128		75		279		774		0		0	
Northeastern Illinois U.	417	380		1,343		1,325		1,122		0		249		873		0		0	
U. South Florida, Saint Petersburg	418	830		1,459		1,233		1,120		0		386		206		528		0	
U. Wisconsin-Green Bay	419	342	i	823	i	1,173	i	1,114	i	131	i	306	i	649	i	28	i	0	i
California State U., East Bay	420	ne		ne		ne		1,103		0		439		629		0		35	
U. Puerto Rico, Cayey	421	56		10		802	i	1,092		0		601		426		40		25	
West Chester U. Pennsylvania	422	1,198		1,318		1,598		1,072		0		459		613		0		0	
Amherst C.	423	724		869		1,570		1,064		0		1,064		0		0		0	
U. Tennessee, Chattanooga	424	532		776		853		1,036		0		843		193		0		0	
Northern Kentucky U.	425	587		253		623		1,007		0		458		532		17		0	
Clarkson U.	426	1,284		1,401		1,163		999		0		902		97		0		0	
U. Wisconsin-Oshkosh	427	835	i	884	i	953	i	989	i	0	i	340	i	649	i	0	i	0	i
Purdue U., Northwest	428	793		775		615		988		50		18		920		0		0	
U. of the Pacific	429	871		1,267		1,187		982		0		641		341		0		0	
Trinity C., Hartford	430	591		529		983		975		0		908		0		0		67	
U. New Orleans	431	758		626		817		974		0		974		0		0		0	
Missouri U. of Science and Technology	432	596		956		922		971		0		970		1		0		0	
Keene State C.	433	167		ne		549		967		0		956		0		11		0	
U. of the Incarnate Word	434	ne		315		836		962		0		327		531		0		104	
U. South Carolina, Aiken	434	1,052		934		625		962		0		962		0		0		0	
Western Washington U.	436	884		518		937		958		0		721		0		0		237	

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
California State U., San Bernardino	437	2,123		1,898		2,115		948		400		539		9		0		0	
Southeastern Louisiana U.	438	1,103		774		827		941		0		793		148		0		0	
Skidmore C.	439	1,209		1,489		1,221		937		0		85		852		0		0	
SUNY, Buffalo State	440	486		564		645		929		0		929		0		0		0	
Haverford C.	441	812	i	754	i	582	i	926	i	0	i	926	i	0	i	0	i	0	i
Texas A&M U.-Commerce	442	1,514		1,140		1,040		924		723		144		47		0		10	
Wesleyan U.	443	2,167		1,744		1,810		909		0		909		0		0		0	
California State U., Channel Islands	444	807		889		942		901		0		707		0		194		0	
U. Southern Maine	445	1,243		1,223		893		880		424		195		74		187		0	
Santa Clara U.	446	593		492		667		879		0		576		3		300		0	
Furman U.	447	401		502		412		873		0		335		72		0		466	
Claflin U.	448	416		242		350		857		0		857		0		0		0	
U. Wisconsin-La Crosse	449	1,178		1,321		807		851		0		667		22		0		162	
U. Colorado Colorado Springs	450	466		634		528		845		4		716		62		9		54	
Swarthmore C.	451	691		648		755		841		0		841		0		0		0	
Towson U.	452	761		710		914		836		0		531		295		10		0	
Black Hills State U.	453	602		504		847		824		0		783		0		38		3	
Texas Christian U.	454	2,669		1,719		1,932		822		47		311		464		0		0	
Rhode Island C.	455	549		495		592		808		0		540		268		0		0	
U. Central Arkansas	456	973		986		682		785		0		398		386		0		1	
U. Ana G. Mendez, Gurabo	457	651		437		438		779		0		648		21		0		110	
Biola U.	458	672	i	701	i	748	i	771	i	0	i	319	i	452	i	0	i	0	i
U. Richmond	459	691		823		937		765		0		765		0		0		0	
Saint Joseph's U.	460	410		413		477		761		0		726		35		0		0	
Florida Gulf Coast U.	461	809		274		153		760		26		0		632		102		0	
Indiana State U.	462	638		744		852		745		0		690		55		0		0	
Northern Michigan U.	463	255		611		684		727		0		430		200		97		0	
Montana Technological U.	464	670		907		1,006		708		0		708		0		0		0	
Bryn Mawr C.	465	1,105		1,018		829		705		0		640		0		65		0	
Eastern Kentucky U.	466	638		769		885		701		4		609		80		0		8	
Barnard C.	467	451		701		660		692		67		625		0		0		0	
Williams C.	468	618		600		720		686	i	0	i	582	i	0	i	0	i	104	i

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Saint Michael's C.	469	1,174	1,096	775	684	0	671	0	0	13
U. Tulsa	470	648	662	920	678	0	500	178	0	0
Florida Institute of Technology	471	3,880	1,360	1,384	667	0	667	0	0	0
C. New Jersey	472	411	371	ne	657	0	649	8	0	0
Albany State U.	473	1,104	683	1,145	654	209	143	0	270	32
Lewis and Clark C.	474	780	577	584	651	0	651	0	0	0
Christopher Newport U.	475	281	428	584	644	0	644	0	0	0
Lipscomb U.	476	ne	ne	ne	643 i	0 i	264 i	379 i	0 i	0 i
Hope C.	477	428	708	477	636	0	629	7	0	0
U. Dayton	478	522	1,002	818	632	0	217	216	199	0
Spelman C.	479	759	684	536	624	0	604	20	0	0
Pepperdine U.	480	354	350	358	623	0	597	18	0	8
Middlebury C.	481	647	875	317	615	0	506	109	0	0
Midwestern State U.	482	ne	ne	ne	602	0	126	476	0	0
Doane U.	483	ne	652	585	601 i	0 i	601 i	0 i	0 i	0 i
Loyola Marymount U.	484	1,153	300	542	591	28	407	6	0	150
Bucknell U.	485	1,028 i	1,103	608	578 i	0 i	578 i	0 i	0 i	0 i
Franklin and Marshall C.	485	975	730	815	578	0	572	6	0	0
Hofstra U.	487	361	433	472	575	0	337	47	191	0
U. Alaska, Southeast	488	508	819	676	574	105	374	13	82	0
U. Washington, Bothell	489	0	229	653	558	172	0	297	89	0
Minnesota State U., Mankato	490	237	459	645	548	205	63	17	0	263
U. Massachusetts, central office	491	359	381	329	545	0	0	545	0	0
Kenyon C.	492	ne	574	569	534	0	534	0	0	0
Harvey Mudd C.	493	279	298	457	520	0	520	0	0	0
U. of St. Thomas (MN)	494	239	375	471	514	0	514	0	0	0
Trinity U.	495	478	448	452	505	0	499	6	0	0
Winthrop U.	496	368	386	513	501	0	100	401	0	0
Calvin U.	497	380	471	519	496 i	0 i	481 i	15 i	0 i	0 i
CUNY, New York City C. of Technology	497	ne	769	631	496	0	496	0	0	0
CUNY, York C.	499	ne	ne	377	494	0	485	9	0	0
Purdue U., Fort Wayne	500	2,119	2,355	680	488	0	483	5	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
CUNY, Medgar Evers C.	501	928		898		883		487		0		482		5		0		0	
Grinnell C.	501	758		990		363		487		0		487		0		0		0	
Fort Hays State U.	503	ne		ne		371		483		1		478		0		0		4	
Colgate U.	504	709		737		726		478		0		478		0		0		0	
Rhode Island School of Design	505	9	i	515	i	500	i	476	i	0	i	0	i	0	i	476	i	0	i
DePaul U.	506	773		783		479		465		0		296		79		1		89	
SUNY, C. Plattsburgh	506	186		735		398		465		0		0		465		0		0	
Ithaca C.	508	ne		ne		ne		459		0		138		303		0		18	
Sonoma State U.	509	ne		ne		ne		456		0		197		45		214		0	
Central Washington U.	510	670		613		517		449		0		428		0		21		0	
Colby C.	511	865		910		812		443		0		304		0		0		139	
St. Cloud State U.	512	1,211		1,048		887		441		0		349		78		4		10	
Elizabeth City State U.	513	7		1		ne		435		0		435		0		0		0	
Whitman C.	514	ne		ne		464		427		0		427		0		0		0	
Eastern Washington U.	515	946		662		564		422		0		186		0		176		60	
Providence C.	515	572		606		589		422		0		422		0		0		0	
U.S. Military Academy	517	671		720		578		421		0		421		0		0		0	
Bowie State U.	518	164		75		122		414		0		414		0		0		0	
Johnson C. Smith U.	519	465		616		483		412		0		0		246		76		90	
Pennsylvania State U., Harrisburg	520	15		138		187		411		2		82		327		0		0	
Claremont McKenna C.	521	389		366		338		400		0		396		0		4		0	
U. Wisconsin-Platteville	522	380	i	ne		389	i	396	i	207	i	111	i	0	i	78	i	0	i
U. Michigan, Dearborn	523	178		403		313		382		0		121		261		0		0	
Eastern Connecticut State U.	524	45		76		302		381		0		376		5		0		0	
U. Puget Sound	525	518		ne		ne		379		0		357		20		2		0	
Dickinson C.	526	281		ne		307		369		0		70		53		238		8	
Occidental C.	527	1,089		288		739		368		90		278		0		0		0	
U. Central Oklahoma	528	262		314		367		366	i	0	i	303	i	63	i	0	i	0	i
Pittsburg State U.	529	103		212		393		360		0		178		69		113		0	
Mount Holyoke C.	530	822		71		142		359		0		359		0		0		0	
Dine C.	531	ne		1,238		1,074		347		19		0		328		0		0	
U. Houston-Clear Lake	531	233		211		279		347		0		44		0		0		303	

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Elon U.	533	337	397	367	344	0	140	45	0	159
Pomona C.	534	548	341	296	338	0	338	0	0	0
Southern U. and A&M C., Baton Rouge	534	381	357	430	338	122	128	2	86	0
U. Texas of the Permian Basin	536	0	0	ne	335	0	328	0	0	7
Carleton C.	537	140	339	532	334	0	256	0	78	0
Texas A&M International U.	538	2,244	3,150	3,569	333	0	9	220	104	0
New School	539	0	9	23	324	0	0	12	54	258
Davidson C.	540	496	414	525	322	0	322	0	0	0
California Lutheran U.	541	ne	ne	310	316	0	257	39	0	20
U. San Francisco	542	406	492	456	308	0	65	195	37	11
Liberty U.	543	ne	ne	867	307	0	247	26	0	34
Northwestern State U. Louisiana	543	109	202	261	307	0	131	176	0	0
U. Northern Iowa	545	227	256	215	306	201	104	1	0	0
Morehead State U.	546	362	276	697	299	38	211	0	50	0
Fort Lewis C.	547	ne	ne	640	297	0	231	11	23	32
Macalester C.	547	378	290	343	297	0	297	0	0	0
Oberlin C.	549	297	447	971	295	0	285	10	0	0
Troy U.	550	ne	ne	ne	290	12	176	2	100	0
SUNY, Oswego	551	294	393	359	286	0	281	5	0	0
Lamar U.	552	288	381	685	285	0	55	36	0	194
Fairfield U.	553	1,375	1,015	146	279	0	230	49	0	0
Connecticut C.	554	955	663	348	275	0	275	0	0	0
Gettysburg C.	555	152	247	435	260	0	257	3	0	0
New Mexico Institute of Mining and Technology	555	56	226	395	260	0	260	0	0	0
U. Ana G. Mendez, Carolina	557	1,117	630	ne	258	0	258	0	0	0
C. Wooster	558	378	400	509	257	15	242	0	0	0
CUNY, Lehman C.	559	1,036	1,145	205	256	0	255	1	0	0
U. Puerto Rico, Humacao	560	ne	233	295	255	0	229	0	26	0
Merrimack C.	561	ne	480	ne	253	0	0	253	0	0
CUNY, Baruch C.	562	202	381	396	250	0	250	0	0	0
St. Olaf C.	563	423	372	288	249	48	90	81	30	0
California State U., Bakersfield	564	616	430	316	245	0	223	22	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Savannah State U.	565	450	581	320	234	0	22	152	0	60
New Mexico Highlands U.	566	299	154	ne	226	0	171	0	55	0
Rutgers, State U. New Jersey, Camden	567	32	0	32	225	0	225	0	0	0
U. Wisconsin-River Falls	568	175	199	ne	224	125	99	0	0	0
U. Michigan, Flint	569	259	226	213	222	0	32	190	0	0
U. North Carolina, general administration	569	463	128	311	222	75	0	0	73	74
U. San Diego	571	392	417	357	217	0	92	121	0	4
Stevens Institute of Technology	572	97	83	33	203	0	0	0	0	203
National Defense U.	573	0	0	0	200	0	200	0	0	0
Vassar C.	574	300	60 i	34	197	0	197	0	0	0
Stockton U.	575	ne	158	78	195	46	105	44	0	0
Roger Williams U.	576	189	198	314	189	6	177	0	0	6
Wheaton C., Wheaton	577	124	107	216	184	0	23	161	0	0
Kean U.	578	ne	ne	ne	183	0	63	120	0	0
Willamette U.	579	634	769	313	181	0	169	12	0	0
Salish Kootenai C.	580	116	94	213	172	95	0	0	77	0
U. Washington, Tacoma	581	120	331	597	164	0	1	0	163	0
U. South Florida, Sarasota-Manatee	582	162	133	186	162	0	115	47	0	0
Coastal Carolina U.	583	206	278	305	157	0	98	0	0	59
Colorado C.	584	319	220	307	156	0	121	0	35	0
Seattle U.	584	397	349	248	156	0	156	0	0	0
C. of Saint Benedict	586	191	159	157 i	149 i	0 i	116 i	14 i	0 i	19 i
California State U., Dominguez Hills	587	118	380	244	144	0	110	21	0	13
Seton Hall U.	588	850	724	810	138	0	138	0	0	0
Saint John's U., Collegeville	589	171	143	140 i	133 i	0 i	104 i	12 i	0 i	17 i
U. of Mary Washington	590	ne	55	100	132	0	132	0	0	0
Central Connecticut State U.	591	76	ne	112	131	0	131	0	0	0
SUNY, Geneseo	591	135	194	233	131	0	131	0	0	0
U. Wisconsin-Eau Claire	593	58	138	145	126	0	80	46	0	0
Morehouse C.	594	126	119	116	120	0	120	0	0	0
CUNY, Graduate Center	595	197	59	51	116	0	116	0	0	0
Norfolk State U.	596	194	53	108	114	0	114	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Citadel Military C. South Carolina	597	ne	ne	ne	109	0	75	34	0	0
Northwest Indian C.	598	ne	1,164	104	103 i	103 i	0 i	0 i	0 i	0 i
St. Bonaventure U.	599	ne	ne	ne	102	0	102	0	0	0
La Sierra U.	600	96	64	132	101	0	101	0	0	0
U. Hartford	600	136	10	38	101	0	0	101	0	0
Youngstown State U.	600	94	34	100	101	0	74	27	0	0
Albion C.	603	138	152	118	96	0	76	0	0	20
Mills C.	604	22	0	121	95	0	0	0	8	87
Lafayette C.	605	8	82	118	94	0	87	1	0	6
CUNY, John Jay C. of Criminal Justice	606	281	835	254	92	7	49	28	0	8
U. North Georgia	607	1	120	286	91	0	16	67	8	0
Monmouth U.	608	ne	ne	164	88	3	85	0	0	0
CUNY, system office	609	0	43	30	84	0	84	0	0	0
Hamilton C.	610	154	251	180	81	0	81	0	0	0
Bradley U.	611	93	111	92	78	0	78	0	0	0
Niagara U.	612	121	101	94	76	0	76	0	0	0
U. Minnesota, Morris	613	92	ne	53	72	0	59	0	13	0
Weber State U.	614	ne	ne	ne	71	0	54	0	0	17
Manhattan C.	615	ne	ne	91	66	0	56	0	0	10
New Jersey City U.	616	394	805	675	65	0	65	0	0	0
Union C., Schenectady	617	62	53	80	60	0	45	0	0	15
Kettering U.	618	32	19	26	53	0	53	0	0	0
Alfred U.	619	20	18	108	52	52	0	0	0	0
Dakota State U.	620	13	10	7	48	0	48	0	0	0
U. Houston-Downtown	621	135	75	38	46	0	46	0	0	0
Benedict C.	622	136	146	158	45	0	24	0	21	0
Jacksonville State U.	623	166 i	192	114	44	0	44	0	0	0
U. New Haven	624	95	182	91	40	0	35	5	0	0
Alaska Pacific U.	625	54	115	221	38	38	0	0	0	0
Columbus State U.	625	ne	ne	ne	38	0	38	0	0	0
Florida Polytechnic U.	627	ne	ne	50	34	0	34	0	0	0
Suffolk U.	628	91 i	ne	ne	29	0	29	0	0	0

TABLE 41

Higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Pennsylvania State U., Behrend	629	139	120	124	21	0	21	0	0	0
Embry-Riddle Aeronautical U.	630	24	0	92	17	0	0	0	0	17
Andrews U.	631	ne	ne	35	15	0	3	0	0	12
La Salle U.	632	ne	ne	ne	14	0	0	14	0	0
U. Illinois, Springfield	633	20	28	8	5	0	1	0	4	0
All other surveyed institutions	-	594,964	624,976	68,872	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $39,817 thousand in total R&D expenditures in life sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
All institutions	-	22,749,759	23,867,788	25,458,209	26,254,002	1,072,057	9,339,917	14,733,751	410,120	698,157
Johns Hopkins U.[a]	1	650,087	667,885	706,853	714,341	0	221,384	492,957	0	0
U. Washington, Seattle	2	632,917	672,737	664,192	667,996	0	153,375	489,241	13,552	11,828
U. California, San Francisco	3	570,478	634,003	632,556	634,918	0	681	634,237	0	0
U. Pittsburgh, Pittsburgh	4	522,710	558,941	585,348	590,430	248	189,410	400,747	0	25
U. Pennsylvania	5	540,710	555,651	582,252	577,785	25	390,309	153,364	0	34,087
Duke U.	6	497,621	515,536	568,773	568,232	0	195,787	353,311	5,691	13,443
Columbia U. in the City of New York	7	435,032	488,041	539,940	562,474	0	168,917	391,314	1,434	809
U. Michigan, Ann Arbor	8	467,851	501,174	548,206	547,904	0	180,703	333,024	10,218	23,959
Stanford U.	9	481,780	488,675	519,870	529,667	0	179,023	323,047	1,161	26,436
U. North Carolina, Chapel Hill	10	472,136	489,297	513,100	521,691	0	123,492	398,199	0	0
Yale U.	11	455,347	470,751	497,350	512,821	0	140,048	367,588	5,185	0
Washington U., Saint Louis	12	414,779	444,153	476,233	489,071	0	216,565	272,506	0	0
Icahn School of Medicine at Mount Sinai	13	367,522	398,656	443,745	480,452	0	208,188	272,264	0	0
U. California, Los Angeles	14	328,895	392,520	417,741	459,909	0	22,266	437,643	0	0
Emory U.	15	358,117	367,597	393,978	419,593	0	144,201	264,862	0	10,530
U. California, San Diego	16	378,779	393,698	408,818	413,628	0	36,347	377,281	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	17	370,386	382,263	391,543	413,212	0	109,381	303,327	10	494
Harvard U.	18	373,441	389,289	423,934	401,466	0	325,366	54,439	1,884 i	19,777 i
Northwestern U.	19	317,695	339,676	370,062	393,156	0	99,378	287,948	0	5,830
U. Wisconsin-Madison	20	305,361	330,313	366,311	373,989	33,836	162,347	177,594	34	178
U. Maryland[b]	21	na	na	377,610	360,827	23,976	114,209	215,647	905	6,090
New York U.	22	296,101	318,869	335,764	353,092	0	147,771	203,772	0	1,549
Cornell U.	23	259,662	278,645	321,219	352,059	34,520	153,222	161,371	2,946	0
U. Alabama, Birmingham	24	308,882	319,449	345,887	341,725	0	98,997	242,728	0	0
U. Colorado Denver and Anschutz Medical Campus	25	300,551	318,122	338,009	334,819	15	2,578	331,959	31	236
U. Minnesota, Twin Cities	26	289,172	290,484	312,158	334,529	23,557	63,674	231,480	11,236	4,582
U. Southern California	27	251,662	280,016	304,604	321,802	0	91,893	215,128	0	14,781
Ohio State U.	28	270,201	270,596	289,023	321,704	28,620	58,581	225,112	5,589	3,802
Case Western Reserve U.	29	281,390	304,739	314,870	316,948	0	69,339	231,431	0	16,178
Baylor C. of Medicine	30	292,806	300,098	309,354	315,101	0	166,676	148,425	0	0
Oregon Health and Science U.	31	223,779	255,794	287,578	312,023	0	20,651	184,045	799	106,528

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Davis	32	258,236	277,842	287,847	293,608	34,067	136,739	122,802	0	0
Texas A&M U., College Station and Health Science Center	33	106,590	112,702	127,756	275,643	43,309	50,356	171,384	8,712	1,882
U. Florida	34	223,811	247,852	261,847	265,894	55,335	61,336	142,251	6,479	493
Indiana U., Bloomington	35	173,986	185,135	235,383	265,276	0	81,032	183,742	0	502
U. Cincinnati	36	218,631	225,026	228,266	263,035	0	35,074	223,432	0	4,529
Scripps Research Institute	37	250,090	267,088	267,122	243,502	0	243,502	0	0	0
U. Texas Southwestern Medical Center	38	200,085	197,910	203,544	242,679	0	88,551	154,128	0	0
U. Chicago	39	194,758	188,680	212,983	231,277	0	67,334	163,943	0	0
Uniformed Services U. of the Health Sciences	40	196,161	211,620	289,658	229,498	0	902	228,596	0	0
Boston U.	41	175,702	175,980	217,748	228,882	0	110,627	118,255	0	0
Rutgers, State U. New Jersey, New Brunswick	42	219,679	238,865	205,955	218,451	24,468	57,418	131,115	0	5,450
Albert Einstein C. of Medicine	43	188,259	196,457	202,513	204,635	0	0	204,635	0	0
U. Iowa	44	184,184	186,334	192,564	202,824	0	78,419	123,855	0	550
U. Utah	45	151,578	213,459	164,525	202,404	0	24,860	177,544	0	0
U. Massachusetts, Medical School	46	200,232	194,953	197,388	192,938	0	96,954	61,778	0	34,206
U. Virginia, Charlottesville	47	139,653	154,913	167,585	186,706	0	128,995	57,711	0	0
U. Arizona	48	139,722	157,629	177,953	179,457	14,157	101,105	58,241	5,954	0
U. Illinois, Chicago	49	153,240	152,074	162,930	173,236	0	42,919	128,953	1,364	0
U. Rochester	50	160,836	171,199	172,698	173,198	0	44,908	128,290	0	0
U. Miami	51	135,319	138,701	159,479	167,153	0	64,201	98,788	603	3,561
Wake Forest U.	52	145,170	151,899	163,236	164,482	0	2,459	162,023	0	0
U. Texas M. D. Anderson Cancer Center	53	146,757	153,711	154,878	163,540	8,112	64,702	90,726	0	0
Colorado State U., Fort Collins	54	78,952	101,725	144,035	160,153	24,101	23,865	19,151	90,361	2,675
U. Kentucky	55	120,508	124,665	146,907	154,842	13,703	93,567	47,572	0	0
Medical U. South Carolina	56	134,072	142,639	153,226	153,802	0	49,032	44,041	0	60,729
Pennsylvania State U., University Park and Hershey Medical Center	57	134,317	131,739	134,964	146,249	39,012	56,971	49,889	377	0
U. California, Irvine	58	103,628	115,983	128,408	142,756	0	64,157	78,599	0	0
Michigan State U.	59	138,923	143,557	155,127	136,029	36,914	61,131	27,534	1,980	8,470
U. Texas Health Science Center, Houston	60	124,461	128,232	132,647	133,624	0	35,502	53,123	0	44,999
U. Georgia	61	113,776	108,494	114,935	124,753	32,666	78,657	12,548	0	882

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Medical C. Wisconsin	62	108,276	106,409	113,007	122,394	0	47,297	75,097	0	0
U. California, Berkeley	63	108,037	112,538	115,309	119,018	253	67,501	25,243	26,021	0
Temple U.	64	112,783	110,881	122,159	118,429	0	34,298	58,687	0	25,444
George Washington U.	65	109,968	117,015	114,065	117,325	0	33,137	84,188	0	0
U. Texas Medical Branch	66	103,732	103,263	107,395	113,827	0	86,048	27,779	0	0
U. Kansas	67	85,392	94,896	102,440	113,305	306	38,670	69,398	4,352	579
U. Illinois, Urbana-Champaign	68	84,273	81,037	97,918	110,331	30,482	44,234	722	34,893	0
Virginia Commonwealth U.	69	105,606	100,472	101,127	108,867	0	40,720	57,194	0	10,953
SUNY, U. Buffalo	70	105,530	102,258	102,425	108,496	0	47,604	59,728	0	1,164
U. Nebraska, Medical Center	71	84,814	93,463	102,604	105,158	0	70,536	34,622	0	0
U. Texas Health Science Center, San Antonio	72	85,455	86,956	96,502	102,959	0	49,214	53,745	0	0
Tufts U.	73	110,859	48,260	83,149	102,746	2,693	69,674	25,561	0	4,818
Brown U.	74	76,256	89,486	94,797	99,779	0	41,143	31,743	0	26,893
U. Missouri, Columbia	75	87,908	88,197	92,664	99,475	17,807	39,472	35,673	6,460	63
U. New Mexico	76	99,280	107,957	96,789	94,977	0	23,802	68,385	2,230	560
Dartmouth C. and Dartmouth Hitchcock Medical Center	77	99,646	100,337	110,949	94,419	0	49,057	43,926	605	831
U. Connecticut	78	90,872	84,253	94,232	93,227	3,661	49,480	38,304	1,782	0
Tulane U.	79	80,943	89,243	90,615	92,019	0	26,219	16,346	94	49,360
U. South Florida, Tampa	80	157,613	103,580	105,807	89,644	0	64,867	24,754	0	23
Wayne State U.	81	88,338	88,216	92,845	89,306	0	14,506	74,025	0	775
Washington State U.	82	82,888	78,651	86,617	84,222	28,774	21,674	32,030	452	1,292
Rockefeller U.	83	81,732	82,864	81,326	82,626	0	78,153	4,473	0	0
U. Vermont	84	62,350	70,687	74,193	81,752	9,977	37,701	33,364	710	0
Georgetown U.	85	79,254	74,985	77,391	77,133	0	9,790	66,199	0	1,144
Massachusetts Institute of Technology	86	75,247	80,693	80,200	76,829	0	42,112	14,516	0	20,201
Purdue U., West Lafayette	87	71,258	74,981	73,576	76,677	33,464	13,534	29,679	0	0
Thomas Jefferson U.	88	62,029	64,869	74,816	74,594	0	42,244	32,350	0	0
U. Oklahoma, Norman and Health Science Center	89	66,701	64,447	66,880	72,245	0	28,155	43,535	0	555
U. Louisville	90	61,281	67,365	71,330	71,342	0	39,447	28,362	0	3,533
Oregon State U.	91	61,316	64,925	68,066	70,516	25,271	27,860	5,837	11,483	65
U. Arkansas for Medical Sciences	92	51,298	57,523	63,498	70,508	0	38,357	31,804	0	347

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Texas, Austin	93	56,797	71,862	70,469	70,386	30	38,317	28,826	986	2,227
North Carolina State U.	94	67,975	68,297	70,069	68,962	19,714	42,625	0	0	6,623
SUNY, Stony Brook U.	95	56,047	62,230	63,440	66,263	0	39,569	26,694	0	0
California Institute of Technology	96	52,373	54,071	60,735	65,063	0	65,017	46	0	0
Virginia Polytechnic Institute and State U.	97	62,211	62,829	67,390	64,084	18,675	15,769	19,730	9,736	174
Rush U.	98	48,442	61,445	66,527	63,438	0	12,252	51,186	0	0
U. Hawaii, Manoa	99	65,001	65,897	66,036	62,548	7,319	16,953	32,477	1,391	4,408
Cold Spring Harbor Laboratory	100	54,260	67,139	73,854	62,068	1,581	60,487	0	0	0
Iowa State U.	101	54,681	54,201	54,905	60,272	17,311	18,255	5,715	6,713	12,278
U. Mississippi	102	49,446	51,426	57,460	59,546	96	11,028	46,807	0	1,615
Augusta U.	103	48,869	48,749	46,970	55,685	0	29,605	25,747	0	333
U. South Carolina, Columbia	104	51,715	48,945	53,489	53,870	0	10,663	43,207	0	0
Princeton U.	105	42,993	47,385	55,044	53,867	0	50,581	0	3,286	0
Arizona State U.	106	59,205	64,121	47,334	51,775	0	35,741	15,960	57	17
Drexel U.	107	39,000	47,522	51,968	49,999	0	24,521	25,113	365	0
U. Nebraska, Lincoln	108	46,486	46,984	48,939	48,702	25,974	12,887	5,797	4,044	0
U. Tennessee, Health Science Center	109	39,073	38,895	42,347	48,264	0	19,859	28,260	0	145
U. Montana, Missoula	110	35,648	39,026	40,114	45,895	17	15,437	21,652	8,789	0
Louisiana State U., Baton Rouge	111	47,443	44,434	47,731	45,823	15,981	26,797	527	2,518	0
SUNY, U. Albany	112	53,211	65,947	71,179	45,162	0	17,227	27,935	0	0
Kansas State U.	113	47,445	47,740	46,819	43,367	28,326	14,289	752	0	0
U. Colorado Boulder	114	31,000	33,518	42,813	42,667	802	34,958	3,939	381	2,587
U. California, Riverside	115	28,876	28,846	31,966	41,696	6,876	25,037	9,783	0	0
West Virginia U.	116	35,201	35,726	39,527	41,367	5,230	12,150	18,908	4,068	1,011
Cleveland State U.	117	41,832	44,887	38,942	40,809	0	40,320	433	0	56
Mississippi State U.	118	33,309	31,543	35,061	37,520	26,432	5,110	206	5,689	83
U. Massachusetts, Amherst	119	34,509	34,641	36,775	36,163	10,229	15,754	6,464	3,689	27
Georgia State U.	120	32,818	34,958	33,247	35,718	142	24,615	10,882	0	79
U. Delaware	121	32,768	26,620	30,421	34,456	8,759	4,094	21,603	0	0
Florida State U.	122	20,198	25,178	31,905	34,311	170	12,479	19,862	907	893
U. Nevada, Reno	123	28,310	30,829	31,278	33,564	4,101	18,123	8,277	2,235	828
U. Idaho	124	26,700	27,029	30,467	33,427	13,218	17,044	93	3,010	62

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Montana State U., Bozeman	125	26,881	27,955	33,739	33,155	11,916	14,059	7,076	104	0
Louisiana State U., Health Sciences Center, New Orleans	126	27,543	26,988	31,290	31,381	0	16,359	14,392	0	630
U. Wyoming	127	28,555	23,848	29,891	31,367	8,337	13,246	2,026	7,748	10
U. Tennessee, Knoxville[c]	128	10,044	10,634	11,210	30,983	10,737	10,968	4,173	5,105	0
U. New Hampshire	129	27,437	32,492	27,400	30,725	7,826	7,420	9,845	5,634	0
Auburn U., Auburn	130	21,548	24,809	24,883	29,821	13,856	5,918	1,657	434	7,956
U. Oregon	131	28,384	26,484	29,759	29,342	0	28,932	4	406	0
Saint Louis U.	132	24,870	25,030	30,144	29,211	0	13,489	15,722	0	0
U. Puerto Rico, Medical Sciences Campus	133	29,869	30,597	34,541	26,897	0	0	26,897	0	0
SUNY, Downstate Medical Center	134	22,496	26,302	26,914	26,454	0	26,171	283	0	0
U. North Texas, Health Science Center	135	26,368	27,188	26,489	25,461	0	6,661	18,800	0	0
Utah State U.	136	28,177	25,380	27,195	24,904	13,973	1,868	1,877	7,186	0
Northern Arizona U.	137	18,043	16,929	22,912	24,039	470	15,010	3,702	3,961	896
SUNY, Upstate Medical U.	138	19,991	20,391	22,028	23,940	0	10,783	13,081	0	76
Florida International U.	139	21,264	21,098	21,908	23,279	76	19,181	2,603	1,419	0
Georgia Institute of Technology	140	11,347	16,020	15,691	22,969	0	9,186	13,779	0	4
Morehouse School of Medicine	141	28,792	24,326	22,461	22,500	0	0	22,500	0	0
Clemson U.	142	18,867	17,577	18,084	21,908	6,920	8,494	1,847	0	4,647
Brandeis U.	143	23,702	19,117	19,823	21,616	0	20,298	1,318	0	0
Loyola U., Chicago	144	21,028	19,379	20,625	21,189	0	11,042	9,898	249	0
U. Rhode Island	145	17,620	17,752	18,557	21,040	1,970	15,256	2,339	0	1,475
Northeastern U.	146	18,037	18,944	18,983	20,238	0	12,023	4,591	0	3,624
U. Louisiana, Lafayette	147	7,479	11,620	18,209	19,960	122	11,539	8,299	0	0
U. Maine	148	10,966	17,333	18,122	19,256	8,993	4,992	0	5,271	0
Van Andel Research Institute	149	13,108	14,285	18,259	18,538	0	18,538	0	0	0
U. Houston	150	14,326	14,971	18,470	18,438	29	7,235	10,906	255	13
Florida A&M U.	151	17,628	15,164	18,275	18,174	8,004	61	7,301	317	2,491
Oklahoma State U., Stillwater	152	17,804	18,207	17,380	17,865	5,779	7,699	1,106	3,281	0
North Dakota State U.	153	16,384	17,948	17,721	17,605	8,702	2,235	5,142	1,526	0
New Mexico State U.	154	12,649	13,510	15,987	17,602	7,856	8,253	397	11	1,085
Loma Linda U.	155	15,192	15,790 i	16,909 i	17,457 i	0 i	9,105 i	8,352 i	0 i	0 i

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. California, Santa Cruz	156	16,359	15,431	15,946	16,914	159	16,755	0	0	0
U. Arkansas, Fayetteville	157	19,754	23,231	21,808	16,887	12,139	2,880	821	1,047	0
South Dakota State U.	158	18,512	18,857	22,888	16,767	9,950	1,813	1,596	1,971	1,437
U. Texas, Dallas	159	8,237	10,606	13,916	16,603	0	3,035	13,568	0	0
U. North Dakota	160	14,068	14,405	13,647	15,954	0	8,147	7,807	0	0
Howard U.	161	18,735	18,013	16,333	15,752	0	1,798	12,922	0	1,032
Eastern Virginia Medical School	162	21,209	21,356	19,408	15,748	0	6,821	8,927	0	0
San Diego State U.	163	16,650	16,474	16,844	15,009	0	6,374	8,423	212	0
New Jersey Institute of Technology	164	14,184	23,006	19,806	14,836	0	1,109	13,727	0	0
U. Nevada, Las Vegas	165	9,530	13,165	12,545	14,582	65	8,177	5,767	120	453
U. Alaska, Fairbanks	166	17,239	14,540	10,218	14,391	1,823	10,426	431	1,711	0
U. Central Florida	167	9,870	11,036	11,466	13,481	0	10,063	3,418	0	0
U. Missouri, Kansas City	168	8,229	6,419	10,630	13,054	0	3,943	9,111	0	0
Texas Tech U., Health Sciences Center	169	8,995	7,477	11,262	12,977	0	9,477	3,500	0	0
Albany Medical C.	170	11,040	10,243	11,827	12,940	0	12,263	677	0	0
U. California, Santa Barbara	171	16,536	16,706	16,345	12,927	0	12,288	0	639	0
U. Toledo	172	10,584	11,602	13,213	12,830	19	2,730	9,989	0	92
Meharry Medical C.	173	15,613	14,515	16,443	12,573	0	12,573	0	0	0
U. Nebraska, central administration	174	ne	8,817	11,875	12,521	1,674	9,514	1,333	0	0
East Carolina U.	175	9,347	9,773	12,382	12,296	9	1,150	11,137	0	0
U. South Alabama	176	11,591	10,329	12,364	12,175	0	41	11,871	0	263
New York Medical C.	177	9,000 i	8,141 i	11,061 i	12,106	0	4,316	3,010	0	4,780
Indiana U.-Purdue U., Indianapolis	178	7,260	8,368	9,805	11,548	0	5,851	5,576	0	121
Portland State U.	179	9,227	10,857	12,530	11,523	38	7,166	2,097	2,222	0
Louisiana State U., Health Sciences Center, Shreveport	180	7,055	9,235	12,185	11,452	0	9,794	1,658	0	0
Ponce Health Sciences U.	181	7,108	6,386	8,339	11,228	0	0	11,228	0	0
U. Notre Dame	182	11,737	11,043	13,259	11,155	0	11,155	0	0	0
Florida Atlantic U.	183	7,624	7,668	9,452	11,087	67	6,357	3,380	0	1,283
U. Texas, San Antonio	184	8,482	8,553	12,135	10,733	0	9,925	808	0	0
Northeast Ohio Medical U.	185	9,994	9,634	10,029	10,649	0	7,209	3,274	0	166
U. Texas, El Paso	186	12,990	12,056	12,223	10,414	0	8,015	2,007	392	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Marshall U.	187	7,854	7,953	8,481	10,082	0	1,964	8,118	0	0
Southern Illinois U., Carbondale	188	9,570	9,252	9,580	9,899	3,684	2,290	3,925	0	0
Charles R. Drew U. of Medicine and Science	189	14,461	10,198	10,427	9,863	0	0	9,863	0	0
U. South Dakota	190	9,052	10,007	9,660	9,733	0	9,131	504	0	98
Carnegie Mellon U.	191	6,876	7,061	9,677	9,523	427	8,344	493	0	259
CUNY, Queens C.	192	8,129	8,502	9,569	9,378	0	1,054	8,321	0	3
San Francisco State U.	193	7,745	7,900	8,950	9,325 i	0 i	8,988 i	98 i	152 i	87 i
George Mason U.	194	11,814	11,332	9,658	8,803	73	5,178	3,326	196	30
U. Maryland, Baltimore County	195	2,419	3,491	9,297	8,644	473	7,913	142	0	116
Illinois Institute of Technology	196	9,356	9,514	10,066	8,605	682	7,375	487	0	61
Rice U.	197	7,686	7,813	8,245	8,540	0	8,540	0	0	0
Delaware State U.	198	8,126	6,946	8,139	8,480 i	3,557 i	4,746 i	177 i	0 i	0 i
Langston U.	199	7,921 i	7,111 i	6,300	8,473	5,245	1,650	1,578	0	0
Rosalind Franklin U. of Medicine and Science	200	8,794	9,203	8,765	8,421	0	7,651	770	0	0
Wright State U.	201	9,035	9,512	9,735	8,029	0	4,918	3,109	0	2
U. Texas Health Science Center, Tyler	202	5,792	6,438 i	7,084 i	7,732	0	7,732	0	0	0
Rutgers, State U. New Jersey, Newark	203	8,700	6,954	5,847	7,681	0	7,681	0	0	0
U. Texas, Arlington	204	2,328	2,409	5,586	7,558	0	2,515	5,042	1	0
CUNY, Graduate School of Public Health and Health Policy	205	na	3,757	3,933	7,444	154	688	6,602	0	0
U. Texas Rio Grande Valley	206	7,979	7,147	8,649	7,403	1,123	2,225	3,852	22	181
U. Southern Mississippi	207	4,765	6,110	6,662	7,241	0	6,633	608	0	0
Boston C.	208	11,429	10,440	11,274	7,119	0	6,057	1,062	0	0
Boise State U.	209	6,149	5,847	6,384	7,021	248	5,371	867	535	0
North Carolina Agricultural and Technical State U.	210	9,141	7,924	7,118	6,945	3,287	1,455	0	2,203	0
Tuskegee U.	211	4,648	4,648	6,703	6,837	5,084	1,753	0	0	0
SUNY, C. of Environmental Science and Forestry	212	6,350	5,771	6,664	6,831	604	3,064	0	3,163	0
East Tennessee State U.	213	5,329	5,827	7,011	6,785	2	4,219	2,564	0	0
Tennessee State U.	214	6,352	6,778	6,743	6,694	4,862	1,376	44	22	390
North Carolina Central U.	215	5,484	6,581	8,027	6,664	0	6,362	302	0	0
U. Guam	216	5,378	5,841	6,201	6,625	1,428	205	2,034	2,958	0
Rowan U.	217	4,192	5,347	6,069	6,151	0	2,705	3,446	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. of the Virgin Islands	218	9,333	9,146	8,079	5,976	2,140	1,554	1,157	1,125	0
Texas A&M U.-Kingsville	219	4,291	4,317	5,248	5,908	4,753	1,120	0	35	0
U. Maryland Center for Environmental Science	220	4,556	6,873	8,003	5,850	588	1,261	0	3,946	55
California State U., Northridge	221	4,700	6,478	8,190	5,678	252	2,980	0	0	2,446
Creighton U.	222	6,109 i	4,250 i	6,159 i	5,651 i	0 i	2,430 i	3,209 i	12 i	0 i
U. Wisconsin-Milwaukee	223	2,503	3,311	4,503	5,581	0	2,489	3,092	0	0
CUNY, Hunter C.	224	5,373	3,351	3,958	5,303	0	5,050	253	0	0
Marquette U.	225	4,948	5,377	6,572	5,298	84	3,443	1,771	0	0
Ohio U.	226	4,668	3,725	4,619	5,296	0	2,603	2,501	0	192
Prairie View A&M U.	227	5,492	4,968	5,363	5,164	4,615	369	48	132	0
Syracuse U.	228	5,571	4,930	5,223	5,108	86	3,734	647	641	0
U. North Carolina, Greensboro	229	4,103	4,212	5,771	5,045	0	3,013	2,032	0	0
Texas Tech U.	230	5,756	5,172	6,199	4,978	1,934	1,723	570	751	0
U. Nebraska, Omaha	231	4,238	3,648	3,243	4,927	0	2,192	2,658	0	77
Miami U.	232	3,485	4,355	4,944	4,845	0	3,760	1,085	0	0
U. Alaska, Anchorage	233	5,188	5,625	6,313	4,779	61	3,606	0	700	412
Morgan State U.	234	3,902	3,656	3,939	4,679	25	2,890	1,764	0	0
Brigham Young U., Provo	235	6,078	4,321	4,516	4,659	1,090	3,131	392	0	46
U. Massachusetts, Lowell	236	7,224	4,645	3,898	4,573	0	3,156	1,417	0	0
Nova Southeastern U.	237	3,649	3,540	4,725	4,572	0	0	4,572	0	0
U. Massachusetts, Boston	238	4,613	4,589	4,620	4,525	0	2,827	1,591	107	0
Texas A&M U.-Corpus Christi	239	1,846	3,552	4,889	4,521	17	4,191	0	292	21
Fort Valley State U.	240	4,797	3,382	4,228	4,492	4,371	121	0	0	0
Rensselaer Polytechnic Institute	241	2,812	2,903	3,609	4,483	0	4,483	0	0	0
U. Alabama, Tuscaloosa	241	2,104	2,807	3,525	4,483	0	2,119	2,364	0	0
Chapman U.	243	1,784	2,507	4,091	4,431	102	2,519	1,810	0	0
Central Michigan U.	244	3,774	4,921	4,898	4,396	0	3,071	844	481	0
U. New England	245	4,685	4,227	4,189	4,383	0	2,927	1,428	28	0
Kentucky State U.	246	4,885 i	5,099	4,398	4,299	4,225	0	0	74	0
CUNY, Advanced Science Research Center	247	488	1,231	3,452	4,166	0	3,304	0	785	77
Alcorn State U.	248	5,803	4,915	4,833	4,090	3,983	0	107	0	0
Western U. of Health Sciences	249	2,714	2,562	2,573	4,055	456	3,585	14	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, City C.	250	7,511	6,990	5,293	4,054	0	2,012	2,024	0	18
Old Dominion U.	251	5,648	5,535	4,018	4,053	0	1,867	2,186	0	0
U. Minnesota, Duluth	252	4,313	3,722	4,019	4,023	0	592	0	3,431	0
U. Detroit Mercy	253	2,188	4,308	4,728	4,002	0	3,984	18	0	0
U. Arkansas, Pine Bluff	254	3,392	3,240	3,947	3,975	3,820	58	0	0	97
U. California, Merced	255	1,700	2,060	3,916	3,874	0	3,335	539	0	0
Lehigh U.	256	1,269	2,152	3,846	3,834	0	3,834	0	0	0
U. Missouri, Saint Louis	257	2,282	3,079	3,773	3,833	0	1,025	2,591	217	0
Virginia State U.	258	3,413	3,852	4,100	3,775	3,572	24	179	0	0
U. of Health Sciences and Pharmacy in St. Louis	259	ne	ne	ne	3,767	0	0	3,767	0	0
California State U., Long Beach	260	1,906	4,183	4,444	3,635	0	1,849	1,784	0	2
Fisk U.	261	845	2,162	4,473	3,585	0	3,427	113	32	13
West Virginia State U.	262	4,585	4,629	4,282	3,540	2,035	748	0	757	0
Tarleton State U.	263	3,759	4,016	4,293	3,534	3,394	15	0	125	0
U. Memphis	264	3,253	4,686	4,013	3,520	0	2,339	1,139	0	42
Clark Atlanta U.	265	3,881	4,134	3,859	3,468	0	3,468	0	0	0
Baylor U.	266	1,041	1,717	2,096	3,385	177	1,930	1,255	23	0
Duquesne U.	267	4,025	3,954	3,265	3,359	0	1,178	2,181	0	0
Lincoln U., Jefferson City	268	3,481	2,118	2,319	3,351	2,940	227	0	177	7
Arkansas State U., Jonesboro	269	2,349	3,126	3,346	3,344	1,159	2,185	0	0	0
U. North Carolina, Wilmington	270	2,546	2,532	3,558	3,327	0	2,330	151	846	0
Alabama A&M U.	271	8,860 i	6,853 i	4,847 i	3,305 i	209 i	1,104 i	1,916 i	76 i	0 i
Kent State U.	272	1,441	1,752	3,094	3,056	0	2,624	424	3	5
MGH Institute of Health Professions	273	1,839	2,957	3,494	3,014	0	1,427	1,587	0	0
California Polytechnic State U., San Luis Obispo	274	3,168	3,225	3,672	2,989	336	609	1,836	208	0
U. Hawaii, Hilo	274	4,202	3,364	2,996	2,989	573	1,145	631	138	502
U. Puerto Rico, Rio Piedras	276	1,883	1,739	2,968	2,911	0	2,884	27	0	0
U. Central del Caribe	277	4,866	2,937	2,705	2,743	0	0	2,743	0	0
U. Denver	278	1,352	2,061	2,505	2,721	0	2,441	0	280	0
Wichita State U.	279	628	1,567	2,435	2,632	0	2,623	9	0	0
U. Maryland, Eastern Shore	280	1,999	193	616	2,567	1,885	269	259	154	0
Oklahoma State U., Center for Health Sciences	281	729	959	851	2,469	0	0	2,469	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. North Texas, Denton	282	2,268	2,626	2,969	2,446	136	2,197	48	0	65
Central State U.	283	700	1,500	1,674	2,444	2,204	59	0	102	79
Illinois State U.	284	1,595	1,715	2,873	2,405	29	1,692	684	0	0
Xavier U. Louisiana	285	2,405	2,606	1,890	2,371	0	987	1,384	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	286	2,101	2,299	2,063	2,291	0	2,015	276	0	0
SUNY, Binghamton U.	287	1,428	2,480	2,526	2,273	0	954	1,319	0	0
Oakland U.	288	3,088	2,732	3,351	2,266	0	1,664	69	0	533
Texas State U.	289	2,302	2,257	2,579	2,260	291	1,103	354	0	512
U. North Carolina, Charlotte	290	2,426	2,044	2,720	2,239	0	1,676	563	0	0
Eastern Michigan U.	291	236	330	1,349	2,234	0	763	1,413	58	0
U. Arkansas, Little Rock	292	1,809	1,330	1,693	2,187	0	2,143	35	9	0
California State U., Monterey Bay	293	2,723	2,797	2,695	2,140	281	1,859	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	294	2,736 i	3,057	3,057	2,085	2,085	0	0	0	0
U. Wisconsin-Stevens Point	295	1,188 i	1,478 i	1,768 i	2,058	679	2	19	1,358	0
Winston-Salem State U.	296	866	884	650	2,043	0	677	1,366	0	0
Alabama State U.	297	2,253	2,434	2,577	1,989	0	1,747	0	0	242
Idaho State U.	298	2,449	1,990	1,624	1,949	0	1,666	283	0	0
Albany C. of Pharmacy and Health Sciences	299	566	1,092	1,690	1,938	0	1,111	827	0	0
CUNY, Brooklyn C.	300	1,389	1,447	1,842 i	1,919	0	1,363	556	0	0
Mercer U.	301	1,619	1,969	1,677	1,912	0	0	1,457	0	455
California State U., Fullerton	302	1,969	2,053	2,270	1,896	223	1,262	335	76	0
Teachers C., Columbia U.	303	1,280	1,293	1,525	1,856	0	0	0	0	1,856
Jackson State U.	304	3,136	1,824	1,686	1,848	0	804	1,044	0	0
Texas Southern U.	305	2,172	1,843	1,851	1,804	0	1,804	0	0	0
U. Louisiana, Monroe	306	1,582	1,497	1,393	1,788	0	409	1,379	0	0
Colorado School of Mines	307	2,339	1,721	1,799	1,784	146	1,513	125	0	0
California State U., Los Angeles	308	847	1,794	2,205	1,747	0	1,512	235	0	0
Hampton U.	309	2,095	1,290	1,777	1,745	0	783	962	0	0
Tougaloo C.	310	2,120	2,012	1,444	1,741	0	503	1,238	0	0
California State Polytechnic U., Pomona	311	1,223	1,344	1,279	1,692	327	1,365	0	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
SUNY, C. of Optometry	312	2,073	1,944	1,823	1,688	0	0	1,688	0	0
Texas Tech U., Health Sciences Center, El Paso	313	2,329	2,489	2,238	1,675	0	486	1,189	0	0
Catholic U. of America	314	1,925	2,277	2,174	1,660	0	1,228	432	0	0
Naval Postgraduate School	315	369	1,244	1,939	1,655	0	1,185	200	0	270
Humboldt State U.	316	1,233	1,564	1,556	1,636	104	552	0	924	56
Western Illinois U.	316	648	905	1,089	1,636	983	653	0	0	0
Pacific U.	318	1,505	1,257	2,366	1,597	0	25	1,572	0	0
St. Edward's U.	319	2,230	759	2,150	1,575	275	800	0	500	0
Touro U.	320	1,196	1,410	1,540	1,546	0	521	0	0	1,025
Murray State U.	321	961	1,317	2,201	1,539	43	1,496	0	0	0
Clark U.	322	397	682	1,553	1,502	797	705	0	0	0
William & Mary	323	1,630	1,663	1,585	1,499	294	1,205	0	0	0
U. Puerto Rico, Mayaguez	324	1,002	968	1,777	1,426	508	918	0	0	0
Palmer C. of Chiropractic, Davenport	325	1,189	1,100	1,100	1,400	0	0	0	0	1,400
Western Kentucky U.	326	1,702	1,237	1,607	1,385	430	706	0	0	249
St. John's U., New York	327	806	1,323	1,284	1,375	0	819	556	0	0
South Carolina State U.	328	5,867	6,129 i	1,318	1,367 i	0 i	1,175 i	192 i	0 i	0 i
Missouri State U.	329	900	1,115	1,070	1,349	484	475	0	390	0
U. Wisconsin-Superior	330	ne	1,884	1,498	1,343	0	1	0	1,342	0
Wellesley C.	331	852	1,032	1,179	1,326	0	1,326	0	0	0
Montclair State U.	332	406	1,151	1,053	1,323	14	948	300	61	0
Ball State U.	333	1,115	1,138	1,120	1,315	0	689	598	28	0
Michigan Technological U.	334	1,832	1,650	1,714	1,300	0	901	399	0	0
SUNY, Polytechnic Institute	335	2,675	1,840	1,406	1,297	0	1,297	0	0	0
Tennessee Technological U.	336	411	454	1,092	1,282	90	870	0	322	0
San Jose State U.	337	644	831	1,005	1,268	0	1,268	0	0	0
Southern Illinois U., Edwardsville	338	791	748	1,171	1,232	0	271	961	0	0
Hawaii Pacific U.	339	1,230	1,235	1,159	1,224	654	570	0	0	0
Reed C.	340	354	895	1,031	1,180	0	1,180	0	0	0
Long Island U.	341	1,101	1,338	1,397	1,161	0	58	1,103	0	0
Bates C.	342	521	506	720	1,128	0	1,095	0	0	33
Northeastern Illinois U.	343	380	1,343	1,325	1,122	0	249	873	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Colorado State U., Pueblo	344	ne	ne	1,220	1,108	0	1,081	0	0	27
Saginaw Valley State U.	345	406	868	1,278	1,083	0	0	1,083	0	0
Middle Tennessee State U.	346	1,161	907	972	1,080	301	599	0	180	0
Southern Methodist U.	347	857	979	1,283	1,061	0	1,061	0	0	0
U. Nebraska, Kearney	348	764	800	936	1,035	95	405	327	208	0
New York Institute of Technology	349	516	684	2,194	981	0	283	698	0	0
Keene State C.	350	162	ne	549	966	0	955	0	11	0
Worcester Polytechnic Institute	351	932	1,257	1,087	954	0	954	0	0	0
Midwestern U.	352	1,184	1,278	1,045	936	33	448	455	0	0
Grand Valley State U.	353	258	320	845	935	0	262	673	0	0
Kennesaw State U.	354	528	704	722	933	0	618	315	0	0
National U. of Natural Medicine	355	427	ne	760	912	0	0	912	0	0
Trinity C., Hartford	356	520	341	886	903	0	861	0	0	42
California State U., San Marcos	357	2,319	1,767	1,011	896	0	642	254	0	0
Fordham U.	358	1,285	996	995	883	0	883	0	0	0
Smith C.	359	1,298	1,270	1,017	881	0	867	14	0	0
U. South Carolina, Aiken	360	1,052	904	610	870	0	870	0	0	0
Bowdoin C.	361	1,120	1,120	1,083	869	0	869	0	0	0
Claflin U.	362	416	242	350	854	0	854	0	0	0
U. Akron	363	432	527	793	837	0	694	143	0	0
California State U., Fresno	364	1,407	1,749	1,010	823	451	362	10	0	0
U. of the Sciences Philadelphia	365	799	827	820	808	0	554	254	0	0
Keck Graduate Institute	366	969 i	705 i	781 i	806 i	0 i	348 i	458 i	0 i	0 i
Texas Woman's U.	367	320	304	604	805	28	430	347	0	0
Skidmore C.	368	977	1,217	1,070	799	0	69	730	0	0
U. North Carolina, Asheville	369	500	568	590	797	0	73	667	57	0
New England C. of Optometry	370	ne	837	928	785	0	0	785	0	0
Pace U.	371	168	193	477	753	0	386	19	0	348
California State U., Stanislaus	372	366	469	514	752	0	752	0	0	0
Western Carolina U.	373	202	259	682	750	63	66	621	0	0
U. Wisconsin-Oshkosh	374	623 i	651 i	707 i	737 i	0 i	269 i	468 i	0 i	0 i
Hobart and William Smith Colleges	375	144	ne	700	730	11	39	0	680	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. Colorado Colorado Springs	376	454	547	441	705	0	651	0	0	54
Black Hills State U.	377	368	418	489	691	0	658	0	31	2
Georgia Southern U.	378	1,917	1,057	1,024	681	23	5	570	36	47
U. Texas, Tyler	379	347	489	604	677	146	259	272	0	0
Rochester Institute of Technology	380	418	590	594	668	0	668	0	0	0
Indiana U. Pennsylvania	381	656	568	869	667	0	667	0	0	0
U. of the Pacific	382	734	1,099	953	654	0	326	328	0	0
Bowling Green State U.	383	227	332	478	652	92	376	122	62	0
U. Richmond	384	482	599	708	648	0	648	0	0	0
Sam Houston State U.	385	266	255	533	637	258	379	0	0	0
Florida Gulf Coast U.	386	703	51	73	636	26	0	594	16	0
Saint Michael's C.	387	1,042	1,016	708	627	0	622	0	0	5
Spelman C.	388	759	684	536	624	0	604	20	0	0
U. Alabama, Huntsville	389	282	561	681	622	0	583	39	0	0
C. Charleston	390	1,286	720	761	619	0	561	0	58	0
Louisiana Tech U.	390	666	595	608	619	350	232	37	0	0
Stephen F. Austin State U.	390	757	568	590	619	619	0	0	0	0
James Madison U.	393	562	503	698	618	0	533	0	85	0
Amherst C.	394	381	610	757	608	0	608	0	0	0
U. Puerto Rico, Cayey	395	47	10	45	604	0	237	327	40	0
Edward Via C. of Osteopathic Medicine	396	94	195	749	566	0	1	565	0	0
U. Washington, Bothell	397	0	87	455	558	172	0	297	89	0
U. Ana G. Mendez, Gurabo	398	419	274	347	556	0	446	0	0	110
Northern Kentucky U.	399	364	130	420	552	0	257	295	0	0
U. Tennessee, Chattanooga	399	279	429	564	552	0	552	0	0	0
U. Northern Colorado	401	990	880	600	549	0	389	128	0	32
U. West Florida	402	317	317	296	548	0	409	28	0	111
U. of the Incarnate Word	403	ne	160	576	545	0	14	531	0	0
U. Dayton	404	349	765	676	542	0	205	172	165	0
Lewis and Clark C.	405	286	459	526	538	0	538	0	0	0
American U.	406	717	439	605	531	0	476	0	0	55
U. Alaska, Southeast	407	454	819	625	521	96	369	13	43	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All life sciences		Agricultural sciences		Biological and biomedical sciences		Health sciences		Natural resources and conservation		Life sciences nec	
Kenyon C.	408	ne		501		484		520		0		520		0		0		0	
Doane U.	409	ne		516		498		514	i	0	i	514	i	0	i	0	i	0	i
Mercyhurst U.	409	0	i	ne		498	i	514	i	0	i	222	i	292	i	0	i	0	i
Rhode Island C.	411	522		466		555		504		0		504		0		0		0	
Santa Clara U.	412	490		329		456		503		0		463		3		37		0	
Dillard U.	413	3,932		4,404		920		502		0		500		2		0		0	
Franklin and Marshall C.	413	688		565		593		502		0		502		0		0		0	
Clarkson U.	415	1,004		960		636		496		0		442		54		0		0	
U. Oklahoma, Tulsa	416	344		864		496		493		0		0		493		0		0	
U. Wisconsin-Green Bay	417	220	i	301	i	452	i	490	i	31	i	164	i	284	i	11	i	0	i
Barnard C.	418	331		436		356		489		57		432		0		0		0	
Yeshiva U.	419	816		683		380		486		0		0		486		0		0	
Middlebury C.	420	645		831		296		483		0		374		109		0		0	
Midwestern State U.	421	ne		ne		ne		480		0		99		381		0		0	
Southeastern Louisiana U.	422	768		572		422		473		0		337		136		0		0	
Appalachian State U.	423	809		649		486		465		27		345		64		29		0	
Winthrop U.	423	281		235		359		465		0		64		401		0		0	
Sul Ross State U.	425	439		504		330		463		0		0		0		463		0	
Saint Joseph's U.	426	51		103		116		460		0		460		0		0		0	
CUNY, York C.	427	ne		ne		340		450		0		450		0		0		0	
Albany State U.	428	764		509		737		445		0		143		0		270		32	
Harvey Mudd C.	429	162		178		323		444		0		444		0		0		0	
SUNY, C. Brockport	429	622		667		360		444		0		291		0		153		0	
Swarthmore C.	431	342		379		468		439		0		439		0		0		0	
California State U., San Bernardino	432	1,088		1,034		1,055		435		346		89		0		0		0	
California State U., Sacramento	433	17		279		294		434		0		125		0		309		0	
Calvin U.	434	301		426		449		431	i	0	i	431	i	0	i	0	i	0	i
SUNY, C. Plattsburgh	435	146		681		373		429		0		0		429		0		0	
Elizabeth City State U.	436	0		1		ne		428		0		428		0		0		0	
Biola U.	437	367	i	382	i	410	i	423	i	0	i	183	i	240	i	0	i	0	i
Florida Institute of Technology	437	1,238		878		965		423		0		423		0		0		0	
Philadelphia C. of Osteopathic Medicine	439	260		260		346		422		0		422		0		0		0	

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Bowie State U.	440	164	75	122	414	0	414	0	0	0
West Virginia School of Osteopathic Medicine	440	ne	ne	ne	414	0	52	362	0	0
Johnson C. Smith U.	442	440	380	362	412	0	0	246	76	90
Austin Peay State U.	443	157	328	88	410	0	49	0	361	0
West Chester U. Pennsylvania	443	462	309	540	410	0	337	73	0	0
West Texas A&M U.	445	466	382	313	409	98	0	0	311	0
Fayetteville State U.	446	909	1,354	1,236	408	0	408	0	0	0
Ithaca C.	446	ne	ne	ne	408	0	132	276	0	0
U. Massachusetts, central office	448	267	246	198	403	0	0	403	0	0
U. Wisconsin-La Crosse	449	825	774	492	402	0	402	0	0	0
Northern Illinois U.	450	826	883	601	401	0	176	200	25	0
Claremont McKenna C.	451	389	364	337	396	0	396	0	0	0
Williams C.	451	365	312	413	396 i	0 i	396 i	0 i	0 i	0 i
CUNY, New York City C. of Technology	453	ne	618	487	394	0	394	0	0	0
Eastern Washington U.	454	873	580	484	391	0	155	0	176	60
Fort Hays State U.	455	ne	ne	322	388	0	388	0	0	0
Gallaudet U.	456	1,376	811	408	383	0	0	383	0	0
Wesleyan U.	457	966	682	954	382	0	382	0	0	0
Pennsylvania State U., Harrisburg	458	2	76	25	381	2	76	303	0	0
California State U., Chico	459	311	395	458	380	210	170	0	0	0
Eastern Kentucky U.	460	482	498	547	378	0	334	44	0	0
CUNY, C. Staten Island	461	479	145 i	177	377	0	377	0	0	0
Towson U.	462	326	388	503	374	0	361	13	0	0
Villanova U.	463	844	435	338	358	0	333	25	0	0
U. Central Arkansas	464	417	285	263	357	0	242	115	0	0
Furman U.	465	329	376	328	356	0	309	39	0	8
Lipscomb U.	466	ne	ne	ne	353 i	0 i	150 i	203 i	0 i	0 i
Dine C.	467	ne	1,238	1,074	347	19	0	328	0	0
Providence C.	467	503	543	469	347	0	347	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	469	206	201	191	342	0	297	45	0	0
Indiana State U.	470	302	430	502	339	0	327	12	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Montana Technological U.	470	316	483	478	339	0	339	0	0	0
Southern U. and A&M C., Baton Rouge	472	223	352	401	336	122	128	0	86	0
Mount Holyoke C.	473	800	20	87	333	0	333	0	0	0
C. New Jersey	474	368	352	ne	328	0	328	0	0	0
U. Texas of the Permian Basin	474	0	0	ne	328	0	328	0	0	0
Marshall B. Ketchum U.	476	368 i	354 i	336 i	323 i	0 i	0 i	323 i	0 i	0 i
CUNY, Medgar Evers C.	477	647	619	595	314	0	309	5	0	0
DePaul U.	478	397	404	299	313	0	264	0	0	49
U. North Florida	479	309	390	307	310	0	310	0	0	0
Hofstra U.	480	285	311	360	308	0	308	0	0	0
Pittsburg State U.	481	84	155	297	306	0	178	67	61	0
Whitman C.	482	ne	ne	338	302	0	302	0	0	0
Trinity U.	483	100	115	95	296	0	296	0	0	0
U. Tulsa	484	357	349	357	295	0	267	28	0	0
U.S. Military Academy	484	671	720	578	295	0	295	0	0	0
Colby C.	486	656	613	581	289	0	243	0	0	46
Occidental C.	486	406	242	657	289	90	199	0	0	0
U. Central Oklahoma	488	231	270	291	288 i	0 i	229 i	59 i	0 i	0 i
U. Michigan, Dearborn	489	45	248	172	283	0	112	171	0	0
Hope C.	490	294	408	407	282	0	282	0	0	0
Troy U.	491	ne	ne	ne	269	12	157	0	100	0
Des Moines U.	492	732	732	657	265	261	4	0	0	0
Loyola Marymount U.	493	494	105	310	261	28	233	0	0	0
New Mexico Institute of Mining and Technology	494	56	226	387	255	0	255	0	0	0
U. Puerto Rico, Humacao	494	ne	233	286	255	0	229	0	26	0
U. Massachusetts, Dartmouth	496	844	903	621	253	0	253	0	0	0
Oberlin C.	497	197	265	815	252	0	252	0	0	0
Western Washington U.	498	500	270	249	243	0	243	0	0	0
U. of St. Thomas (MN)	499	47	174	196	242	0	242	0	0	0
Fort Lewis C.	500	ne	ne	538	240	0	187	0	21	32
U. South Florida, Saint Petersburg	501	153	333	275	236	0	6	0	230	0
Bucknell U.	502	317 i	305	245	235 i	0 i	235 i	0 i	0 i	0 i

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
U. of the District of Columbia	502	941	916	1,083	235	235	0	0	0	0
Savannah State U.	504	450	581	320	234	0	22	152	0	60
Texas Christian U.	505	1,527	1,431	850	228	47	57	124	0	0
Morehead State U.	506	222	193	601	223	12	211	0	0	0
U. Puget Sound	506	325	ne	ne	223	0	223	0	0	0
Lamar U.	508	0	53	440	221	0	27	0	0	194
U. California, Office of the President	509	276	313	319	217	94	0	123	0	0
California State U., East Bay	510	ne	ne	ne	212	0	58	154	0	0
U. Ana G. Mendez, Carolina	511	782	391	ne	206	0	206	0	0	0
Minnesota State U., Mankato	512	155	95	136	205	205	0	0	0	0
Davidson C.	513	385	240	272	200	0	200	0	0	0
National Defense U.	513	0	0	0	200	0	200	0	0	0
Central Washington U.	515	287	254	206	198	0	179	0	19	0
Fairfield U.	516	547	1,015	78	191	0	191	0	0	0
SUNY, Oswego	517	194	220	218	190	0	190	0	0	0
Pomona C.	518	168	95	81	180	0	180	0	0	0
Sonoma State U.	519	ne	ne	ne	178	0	161	17	0	0
Eastern Connecticut State U.	520	8	17	169	177	0	177	0	0	0
Purdue U., Northwest	521	106	125	110	176	40	5	131	0	0
SUNY, Buffalo State	521	137	207	188	176	0	176	0	0	0
Salish Kootenai C.	523	116	94	213	172	95	0	0	77	0
New Mexico Highlands U.	524	293	0	ne	170	0	115	0	55	0
Rhode Island School of Design	524	0 i	174 i	177 i	170 i	0 i	0 i	0 i	170 i	0 i
Merrimack C.	526	ne	146	ne	168	0	0	168	0	0
Roger Williams U.	527	78	143	178	166	0	166	0	0	0
U. Washington, Tacoma	528	0	241	385	161	0	0	0	161	0
Christopher Newport U.	529	38	101	132	160	0	160	0	0	0
Coastal Carolina U.	530	198	277	268	157	0	98	0	0	59
California State U., Channel Islands	531	21	107	64	151	0	0	0	151	0
U. New Orleans	532	336	200	108	148	0	148	0	0	0
California Lutheran U.	533	ne	ne	107	144	0	144	0	0	0
Wheaton C., Wheaton	534	60	27	137	142	0	0	142	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Southern Connecticut State U.	535	67	194	212	141	22	17	102	0	0
Seton Hall U.	536	850	724	810	138	0	138	0	0	0
CUNY, Lehman C.	537	886	892	0	136	0	136	0	0	0
Missouri U. of Science and Technology	538	178	152	143	130	0	130	0	0	0
U. Northern Iowa	539	107	115	122	129	94	35	0	0	0
Northern Michigan U.	540	60	89	184	127	0	30	0	97	0
St. Cloud State U.	541	529	312	386	126	0	126	0	0	0
Texas A&M International U.	542	1,514	1,814	1,710	123	0	0	123	0	0
Macalester C.	543	210	79	108	121	0	121	0	0	0
Pepperdine U.	543	193	279	303	121	0	121	0	0	0
Morehouse C.	545	126	119	116	120	0	120	0	0	0
U. Michigan, Flint	546	45	8	9	118	0	0	118	0	0
CUNY, Baruch C.	547	148	261	284	117	0	117	0	0	0
Purdue U., Fort Wayne	547	284	448	122	117	0	117	0	0	0
U. Wisconsin-Platteville	547	116 i	ne	118 i	117 i	59 i	41 i	0 i	17 i	0 i
Azusa Pacific U.	550	134	111	49	116	0	0	116	0	0
Norfolk State U.	551	163	53	108	114	0	114	0	0	0
U. Wisconsin-River Falls	552	66	95	ne	110	64	46	0	0	0
Haverford C.	553	273	292	133	109	0	109	0	0	0
Northwest Indian C.	554	ne	1,164	104	103 i	103 i	0 i	0 i	0 i	0 i
William Paterson U.	554	57	23	32	103	0	81	0	22	0
St. Bonaventure U.	556	ne	ne	ne	102	0	102	0	0	0
U. Hartford	557	97	10	38	101	0	0	101	0	0
Bryn Mawr C.	558	382	298	212	100	0	100	0	0	0
Dickinson C.	559	196	ne	187	97	0	29	0	68	0
U. Southern Maine	560	97	131	28	94	1	60	22	11	0
U. North Georgia	561	0	2	92	91	0	16	67	8	0
CUNY, Graduate Center	562	46	34	46	87	0	87	0	0	0
Seattle U.	563	114	138	116	86	0	86	0	0	0
Stockton U.	564	ne	138	50	85	46	39	0	0	0
U. of Mary Washington	564	ne	7	64	85	0	85	0	0	0
Colgate U.	566	363	293	246	84	0	84	0	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
CUNY, system office	566	0	0	3	84	0	84	0	0	0
Carleton C.	568	11	42	108	82	0	82	0	0	0
C. Wooster	569	183	193	110	81	5	76	0	0	0
California State U., Dominguez Hills	569	85	236	162	81	0	81	0	0	0
Central Connecticut State U.	571	0	ne	31	73	0	73	0	0	0
California State U., Bakersfield	572	447	396	92	70	0	70	0	0	0
Oregon Institute of Technology	573	189 i	59	90 i	67	0	0	0	67	0
U. San Diego	574	40	68	44	65	0	31	34	0	0
SUNY, Geneseo	575	37	80	150	58	0	58	0	0	0
New Jersey City U.	576	394	805	665	57	0	57	0	0	0
Roseman U. of Health Sciences	577	0	18	37 i	56	0	0	56	0	0
Alfred U.	578	20	18	108	52	52	0	0	0	0
Lafayette C.	579	0	50	80	50	0	50	0	0	0
Citadel Military C. South Carolina	580	ne	ne	ne	49	0	49	0	0	0
Connecticut C.	581	333	192	95	48	0	48	0	0	0
CUNY, John Jay C. of Criminal Justice	581	203	500	156	48	7	39	2	0	0
Dakota State U.	581	13	0	0	48	0	48	0	0	0
Liberty U.	584	ne	ne	385	44	0	44	0	0	0
Desert Research Institute	585	208	246	188	43	0	43	0	0	0
Benedict C.	586	136	101	139	42	0	21	0	21	0
St. Olaf C.	587	181	97	68	40	40	0	0	0	0
Alaska Pacific U.	588	54	100	216	38	38	0	0	0	0
Willamette U.	589	460	368	143	35	0	35	0	0	0
Salisbury U.	590	500	77	4	32	0	32	0	0	0
U. Wisconsin-Eau Claire	591	39	30	35	30	0	30	0	0	0
Florida Polytechnic U.	592	ne	ne	6	29	0	29	0	0	0
Grinnell C.	592	339	221	41	29	0	29	0	0	0
Suffolk U.	592	10 i	ne	ne	29	0	29	0	0	0
Weber State U.	595	ne	ne	ne	28	0	28	0	0	0
Hamilton C.	596	0	12	51	26	0	26	0	0	0
Texas A&M U.-Commerce	596	154	91	15	26	18	8	0	0	0
Bradley U.	598	55	53	36	20	0	20	0	0	0

TABLE 42

Federally financed higher education R&D expenditures in the life sciences, ranked by all FY 2020 life sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All life sciences	Agricultural sciences	Biological and biomedical sciences	Health sciences	Natural resources and conservation	Life sciences nec
Colorado C.	598	99	51	115	20	0	20	0	0	0
U. Houston-Clear Lake	598	180	179	9	20	0	20	0	0	0
Columbus State U.	601	ne	ne	ne	18	0	18	0	0	0
Embry-Riddle Aeronautical U.	602	0	0	92	17	0	0	0	0	17
Elon U.	603	46	0	0	16	0	0	16	0	0
Jacksonville State U.	603	12 i	11	14	16	0	16	0	0	0
Vassar C.	603	300	60 i	13	16	0	16	0	0	0
Pennsylvania State U., Behrend	606	27	15	17	15	0	15	0	0	0
La Salle U.	607	ne	ne	ne	14	0	0	14	0	0
Gettysburg C.	608	46	51	60	13	0	13	0	0	0
Union C., Schenectady	608	23	29	14	13	0	13	0	0	0
New School	610	0	9	0	12	0	0	12	0	0
Manhattan C.	611	ne	ne	9	10	0	0	0	0	10
U. New Haven	612	27	56	30	9	0	9	0	0	0
Kettering U.	613	0	19	21	4	0	4	0	0	0
La Sierra U.	613	23	43	32	4	0	4	0	0	0
Stevens Institute of Technology	615	97	83	33	3	0	0	0	0	3
Northwestern State U. Louisiana	616	0	4	34	1	0	0	1	0	0
All other surveyed institutions	-	312,907	359,028	28,754	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $35,811 thousand in federally financed R&D expenditures in life sciences in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
All institutions	-	3,966,250	4,086,777	4,268,650	4,526,859	3,626,162	900,697	1,249,778	1,271,046	1,359,731	1,482,177	1,072,057	410,120
U. Florida	1	183,183	195,362	203,199	233,690	214,551	19,139	36,668	40,329	47,246	61,814	55,335	6,479
Texas A&M U., College Station and Health Science Center	2	192,639	190,226	197,366	200,508	186,922	13,586	41,602	44,092	50,436	52,021	43,309	8,712
Colorado State U., Fort Collins	3	43,368	68,172	123,760	163,384	61,780	101,604	20,029	39,558	85,722	114,462	24,101	90,361
U. Illinois, Urbana-Champaign	4	121,633	122,775	131,139	161,358	79,576	81,782	42,868	39,805	49,187	65,375	30,482	34,893
U. California, Davis	5	141,734	155,642	153,739	150,069	150,069	0	32,218	32,921	34,738	34,067	34,067	0
Cornell U.	6	113,483	129,201	138,182	139,521	121,012	18,509	32,830	32,841	36,625	37,466	34,520	2,946
U. Minnesota, Twin Cities	7	108,226	109,175	116,791	129,207	74,148	55,059	26,159	25,879	26,814	34,793	23,557	11,236
Michigan State U.	8	145,456	151,818	152,185	126,904	112,270	14,634	56,810	55,336	54,697	38,894	36,914	1,980
Purdue U., West Lafayette	9	127,962	126,486	138,419	123,324	123,324	0	38,781	37,846	36,973	33,464	33,464	0
U. Georgia	10	88,456	87,780	100,059	122,712	122,395	317	32,284	30,145	30,966	32,666	32,666	0
U. Nebraska, Lincoln	11	102,007	108,148	112,979	114,382	100,056	14,326	23,795	27,443	29,816	30,018	25,974	4,044
Virginia Polytechnic Institute and State U.	12	100,934	96,684	100,295	110,301	84,380	25,921	28,301	27,335	29,316	28,411	18,675	9,736
Washington State U.	13	94,929	92,696	103,268	109,269	107,295	1,974	37,255	27,763	26,881	29,226	28,774	452
North Carolina State U.	14	113,295	112,533	111,537	108,002	108,002	0	22,908	18,549	17,763	19,714	19,714	0
Mississippi State U.	15	109,002	105,102	109,892	106,989	89,819	17,170	28,314	28,006	30,989	32,121	26,432	5,689

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
U. Wisconsin-Madison	16	81,700	75,751	75,409	105,235	104,300	935	22,497	19,797	19,524	33,870	33,836	34
Pennsylvania State U., University Park and Hershey Medical Center	17	87,362	101,090	96,302	101,950	100,221	1,729	37,207	37,751	37,565	39,389	39,012	377
Louisiana State U., Baton Rouge	18	69,367	75,245	76,202	97,776	88,320	9,456	8,616	9,274	9,992	18,499	15,981	2,518
Oregon State U.	19	87,700	93,555	93,606	96,878	75,087	21,791	33,957	35,539	37,641	36,754	25,271	11,483
Kansas State U.	20	85,334	83,800	85,363	95,332	95,332	0	26,666	24,565	23,652	28,326	28,326	0
North Dakota State U.	21	85,322	81,580	82,904	87,874	77,925	9,949	10,367	10,765	9,164	10,228	8,702	1,526
U. Missouri, Columbia	22	81,597	83,389	86,027	84,797	71,875	12,922	22,940	23,448	22,881	24,267	17,807	6,460
Ohio State U.	23	59,046	61,032	62,584	78,240	67,155	11,085	19,604	20,534	22,364	34,209	28,620	5,589
Rutgers, State U. New Jersey, New Brunswick	24	52,210	47,795	55,587	77,439	77,405	34	13,684	28,189	27,297	24,468	24,468	0
Auburn U., Auburn	25	47,872	58,627	55,586	73,703	72,560	1,143	11,398	12,367	12,167	14,290	13,856	434
U. California, Berkeley	26	66,885	72,256	73,608	72,606	5,506	67,100	22,549	24,148	24,607	26,274	253	26,021
U. Kentucky	27	62,780	68,360	62,898	69,756	69,756	0	13,651	15,775	13,561	13,703	13,703	0
U. Arkansas, Fayetteville	28	66,852	68,912	72,044	67,999	65,950	2,049	10,712	12,676	13,421	13,186	12,139	1,047
U. Arizona	29	54,655	57,804	64,228	63,861	50,725	13,136	16,698	16,560	20,132	20,111	14,157	5,954
U. Maryland[a]	30	na	na	65,185	54,930	52,591	2,339	na	na	31,021	24,881	23,976	905
U. Tennessee, Knoxville[b]	31	94	133	137	51,999	42,734	9,265	0	0	0	15,842	10,737	5,105
Iowa State U.	32	54,421	66,427	67,222	51,947	44,790	7,157	18,605	22,454	20,865	24,024	17,311	6,713

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
U. Idaho	33	48,686	51,255	51,993	50,957	41,232	9,725	14,922	16,203	17,193	16,228	13,218	3,010
Utah State U.	34	52,451	53,684	54,897	48,834	34,268	14,566	26,086	22,532	23,462	21,159	13,973	7,186
Oklahoma State U., Stillwater	35	32,827	35,797	47,191	46,936	36,886	10,050	3,434	3,467	8,452	9,060	5,779	3,281
South Dakota State U.	36	30,661	36,049	39,655	41,442	38,028	3,414	9,255	10,460	13,850	11,921	9,950	1,971
Montana State U., Bozeman	37	38,297	38,318	40,480	40,881	40,695	186	8,684	8,331	11,189	12,020	11,916	104
U. Delaware	38	31,177	27,344	29,062	32,048	32,048	0	10,871	6,739	8,129	8,759	8,759	0
New Mexico State U.	39	26,810	28,609	31,401	31,700	31,672	28	5,424	6,412	8,008	7,867	7,856	11
Texas Tech U.	40	31,234	32,593	31,174	31,317	26,571	4,746	3,526	3,171	2,939	2,685	1,934	751
U. Maine	41	25,718	27,061	27,537	28,020	18,398	9,622	7,561	12,443	13,365	14,264	8,993	5,271
U. New Hampshire	42	27,747	22,317	22,422	25,849	18,571	7,278	15,632	14,809	9,797	13,460	7,826	5,634
U. Washington, Seattle	43	35,434	28,894	25,620	25,393	281	25,112	21,865	17,313	13,468	13,552	0	13,552
U. Michigan, Ann Arbor	44	20,403	22,338	23,814	24,512	2,073	22,439	7,351	8,495	9,692	10,218	0	10,218
U. Massachusetts, Amherst	45	20,446	19,423	18,524	23,951	16,454	7,497	10,938	10,141	9,335	13,918	10,229	3,689
Clemson U.	46	21,253	23,563	24,183	23,702	23,699	3	6,783	6,461	6,713	6,920	6,920	0
West Virginia U.	47	26,080	23,351	23,859	23,438	13,752	9,686	9,198	8,788	8,696	9,298	5,230	4,068
U. Vermont	48	15,856	19,587	16,668	23,292	18,247	5,045	7,708	10,857	7,045	10,687	9,977	710
U. Wyoming	49	15,934	14,331	23,815	i 23,104	12,086	11,018	10,756	8,453	15,768	16,085	8,337	7,748
U. Texas M. D. Anderson Cancer Center	50	0	0	0	22,868	22,868	0	0	0	0	8,112	8,112	0
U. California, Riverside	51	18,553	19,160	22,199	21,969	21,969	0	5,357	4,930	5,489	6,876	6,876	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
U. Montana, Missoula	52	19,807	16,488	17,211	18,646	242	18,404	9,007	8,872	8,856	8,806	17	8,789
U. Minnesota, Duluth	53	18,418	18,181	18,103	18,489	0	18,489	4,116	3,409	3,593	3,431	0	3,431
SUNY, C. of Environmental Science and Forestry	54	11,975	13,834	16,314	16,412	3,551	12,861	3,341	3,370	4,073	3,767	604	3,163
U. Alaska, Fairbanks	55	10,797	17,027	16,511	16,163	10,148	6,015	3,479	4,575	3,161	3,534	1,823	1,711
U. Hawaii, Manoa	56	20,653	16,823	16,788	15,802	13,962	1,840	8,476	8,052	7,688	8,710	7,319	1,391
Texas A&M U.-Kingsville	57	13,938	13,610	15,316	15,336	15,291	45	3,419	3,324	4,350	4,788	4,753	35
North Carolina Agricultural and Technical State U.	58	18,011	16,218	15,671	15,051	12,495	2,556	8,353	6,899	6,070	5,490	3,287	2,203
U. Nevada, Reno	59	15,083	12,534	12,216	14,600	8,439	6,161	4,359	5,220	4,520	6,336	4,101	2,235
U. Connecticut	60	13,206	12,197	12,984	11,816	8,613	3,203	4,538	4,187	4,634	5,443	3,661	1,782
Southern Illinois U., Carbondale	61	11,039	11,463	10,934	11,793	11,793	0	2,371	2,604	2,946	3,684	3,684	0
Yale U.	62	12,615	12,498	11,773	11,175	0	11,175	6,808	6,526	5,609	5,185	0	5,185
U. Illinois, Chicago	63	4,706	5,009	7,486	10,840	0	10,840	723	744	883	1,364	0	1,364
Princeton U.	64	5,785	5,555	8,634	10,766	0	10,766	407	822	2,189	3,286	0	3,286
Duke U.	65	8,074	7,897	9,051	10,726	0	10,726	4,965	5,548	5,576	5,691	0	5,691
Langston U.	66	8,933 i	8,851 i	8,768	10,615	10,615	0	6,631 i	5,953 i	5,274	5,245	5,245	0
Tennessee State U.	67	10,309	10,896	9,543	10,476	10,391	85	4,745	4,488	4,697	4,884	4,862	22
Florida A&M U.	68	12,736	9,811	11,244	10,409	10,092	317	10,081	7,776	8,761	8,321	8,004	317

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total																							
		Agricultural sciences and natural resources conservation								Agricultural sciences		Natural resources and conservation		Federally financed: Agricultural sciences and natural resources conservation								Federally financed: Agricultural sciences		Federally financed: Natural resources and conservation	
Institution	Rank	2017		2018		2019		2020		2020		2020		2017		2018		2019		2020		2020		2020	
U. Kansas	69	2,383		7,908		6,528		9,641		735		8,906		1,397		2,817		3,368		4,658		306		4,352	
Northern Arizona U.	70	8,196		6,524		6,576		8,781		2,273		6,508		4,070		2,195		3,163		4,431		470		3,961	
Prairie View A&M U.	71	7,857		7,543		7,912		7,853		7,719		134		5,317		4,765		5,178		4,747		4,615		132	
Alcorn State U.	72	9,516		8,690		8,578		7,810		7,810		0		5,009		4,728		4,752		3,983		3,983		0	
Kentucky State U.	73	7,647	i	8,599		8,139		7,806		7,732		74		4,878	i	5,092		4,398		4,299		4,225		74	
U. Arkansas, Pine Bluff	74	6,579		6,848		7,621		7,218		7,218		0		3,113		3,104		3,746		3,820		3,820		0	
U. Maryland Center for Environmental Science	75	5,254		7,286		7,704		7,161		997		6,164		3,440		5,158		6,187		4,534		588		3,946	
U. Guam	76	2,942		5,838		6,611		7,112		2,384		4,728		2,741		3,771		4,168		4,386		1,428		2,958	
Delaware State U.	77	7,455		6,186		6,824		7,077	i	7,076	i	1	i	5,535		3,750		3,414		3,557	i	3,557	i	0	i
U. California, Santa Barbara	78	10,621		9,162		7,124		6,761		0		6,761		4,353		2,041		994		639		0		639	
Virginia State U.	79	5,785		6,767		6,814		5,920		5,920		0		3,391		3,807		4,029		3,572		3,572		0	
Tuskegee U.	80	8,663	i	7,041		5,756		5,871		5,871		0		4,451		4,451		4,984		5,084		5,084		0	
Tarleton State U.	81	5,724		6,209		6,470		5,716		5,488		228		3,759		4,016		4,293		3,519		3,394		125	
Humboldt State U.	82	3,081		4,917		5,983		5,673		163		5,510		855		1,187		1,313		1,028		104		924	
Tufts U.	83	29,339		3,280		1,048		5,539		5,500		39		15,774		1,960		197		2,693		2,693		0	
Central State U.	84	1,217		2,808		2,871		5,313		5,047		266		700		1,492		1,622		2,306		2,204		102	
Lincoln U., Jefferson City	85	3,287		3,120		2,947		5,170		4,516		654		2,271		1,638		1,498		3,117		2,940		177	
Fort Valley State U.	86	4,790		3,344		4,136		4,452		4,452		0		4,551		3,174		4,066		4,371		4,371		0	

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
U. of the Virgin Islands	87	3,993	4,043	3,751	4,392	2,351	2,041	2,769	3,139	2,692	3,265	2,140	1,125
West Virginia State U.	88	3,966	3,483	3,551	4,327	3,481	846	2,972	2,650	2,576	2,792	2,035	757
Columbia U. in the City of New York	89	8,924	4,104	3,793	4,151	0	4,151	3,509	1,615	1,413	1,434	0	1,434
U. Wisconsin-Stevens Point	90	2,887 i	3,284 i	3,681 i	4,080	1,029	3,051	1,176 i	1,463 i	1,750 i	2,037	679	1,358
California Polytechnic State U., San Luis Obispo	91	3,041	2,649	4,861	4,021	3,201	820	522	738	807	544	336	208
Georgia Institute of Technology	92	3,787	4,177	3,831	3,820	3,820	0	174	225	166	0	0	0
U. New Mexico	93	300	3,635	4,418	3,768	0	3,768	300	2,341	2,810	2,230	0	2,230
Portland State U.	94	3,298	3,921	3,626	3,657	46	3,611	2,242	2,389	1,921	2,260	38	2,222
West Texas A&M U.	95	2,997	2,716	2,877	3,549	3,117	432	430	382	313	409	98	311
Southern U. and A&M C., Agricultural Research and Extension Center	96	5,000 i	5,296	4,541	3,515	3,159	356	2,736 i	3,057	3,057	2,085	2,085	0
U. Rhode Island	97	1,740	1,909	2,546	3,400	3,400	0	1,060	959	1,254	1,970	1,970	0
Drexel U.	98	3,554	7,868	2,650	3,361	0	3,361	304	197	105	365	0	365
Southern Illinois U., Edwardsville	99	4,891	5,702	8,809	3,324	3,324	0	0	0	0	0	0	0
California State U., Fresno	100	2,957	2,867	3,686	3,277	3,277	0	227	405	405	451	451	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total										Federally financed									
		Agricultural sciences and natural resources conservation								Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation								Agricultural sciences	Natural resources and conservation
		2017		2018		2019		2020		2020	2020	2017		2018		2019		2020		2020	2020
U. California, Santa Cruz	101	2,787		3,052		2,724		3,247		3,247	0	6		6		85		159		159	0
Harvard U.	102	3,066	i	4,370	i	3,435	i	3,028	i	47	2,981 i	2,040	i	2,350	i	2,135	i	1,884	i	0	1,884 i
Florida State U.	103	2,852		3,825		2,428		2,973		296	2,677	284		415		592		1,077		170	907
U. Colorado Boulder	104	1,235		214		839		2,585		1,448	1,137	22		65		418		1,183		802	381
U. Texas, Austin	105	8,070		7,686		1,550		2,584		58	2,526	1,920		1,911		488		1,016		30	986
Brigham Young U., Provo	106	4,254		2,766		2,583		2,559		2,559	0	2,821		1,542		1,274		1,090		1,090	0
U. California, Office of the President	107	2,328		2,418		2,552		2,503		2,503	0	98		129		117		94		94	0
U. Nebraska, central administration	108	ne		1,747		2,074		2,242		2,242	0	ne		1,615		1,935		1,674		1,674	0
U. of the District of Columbia	109	1,813		1,626		2,538		2,157		2,157	0	882		738		1,083		235		235	0
Florida International U.	110	2,725		2,940		2,604		2,156		84	2,072	1,574		1,631		1,881		1,495		76	1,419
U. Maryland, Eastern Shore	111	1,893		194		615		2,044		1,885	159	1,893		186		611		2,039		1,885	154
U. Wisconsin-Superior	112	ne		2,908		2,122		2,025		0	2,025	ne		1,808		1,401		1,342		0	1,342
Stanford U.	113	3,933		3,797		3,933		1,983		0	1,983	249		407		1,197		1,161		0	1,161
Arkansas State U., Jonesboro	114	1,540		1,440		1,983		1,897		1,897	0	803		780		1,237		1,159		1,159	0
U. North Carolina, Wilmington	115	2,456		2,464		2,019		1,818		565	1,253	831		1,072		794		846		0	846
Stephen F. Austin State U.	116	1,992		1,533		1,804		1,695		1,695	0	735		564		589		619		619	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Cold Spring Harbor Laboratory	117	0	568	1,622	1,657	1,657	0	0	423	1,535	1,581	1,581	0
Sul Ross State U.	118	1,559	2,001	1,578	1,595	123	1,472	439	504	330	463	0	463
Hobart and William Smith Colleges	119	256	ne	1,185	1,484	11	1,473	44	ne	618	691	11	680
Massachusetts Institute of Technology	120	818	3,370	3,005	1,370	861	509	127	88	71	0	0	0
U. Texas Rio Grande Valley	121	534	791	1,121	1,324	1,187	137	122	576	894	1,145	1,123	22
U. Alaska, Anchorage	122	187	938	482	1,246	294	952	41	235	177	761	61	700
U. Hawaii, Hilo	123	2,200	1,671	1,574	1,245	1,020	225	1,743	1,150	835	711	573	138
California State U., Chico	124	603	899	759	1,224	1,224	0	107	179	166	210	210	0
Boise State U.	125	660	529	1,202	1,184	299	885	450	251	807	783	248	535
California State U., Monterey Bay	126	1,209	1,211	1,501	1,164	1,164	0	514	491	506	281	281	0
U. Pennsylvania	127	918	945	926	1,140	1,140	0	160	200	150	25	25	0
Missouri State U.	128	746	1,036	1,199	1,103	578	525	735	998	885	874	484	390
Western Illinois U.	129	91	146	216	1,062	1,062	0	46	72	120	983	983	0
Tennessee Technological U.	130	1,766	868	1,041	1,042	427	615	235	291	390	412	90	322
U. Massachusetts, Boston	131	3	262	808	1,020	40	980	3	2	6	107	0	107

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Austin Peay State U.	132	157	183	176	947	0	947	157	150	25	361	0	361
San Diego State U.	133	837	554	683	921	0	921	270	232	278	212	0	212
U. Texas, El Paso	133	2,510	2,016	1,457	921	0	921	1,111	1,129	658	392	0	392
U. Maryland, Baltimore County	135	0	0	738	896	846	50	0	0	412	473	473	0
SUNY, C. Brockport	136	668	783	557	886	127	759	363	363	167	153	0	153
Central Michigan U.	137	771	348	192	881	32	849	358	289	98	481	0	481
CUNY, Advanced Science Research Center	138	0	0	805	869	0	869	0	0	703	785	0	785
Illinois Institute of Technology	139	2,106	1,791	1,207	863	863	0	1,941	1,631	1,147	682	682	0
Syracuse U.	140	1,134	1,040	1,104	859	87	772	908	891	837	727	86	641
Louisiana Tech U.	141	671	781	917	841	841	0	289	320	361	350	350	0
California State Polytechnic U., Pomona	142	1,681	1,751	1,381	838	838	0	431	335	287	327	327	0
U. Puerto Rico, Mayaguez	143	1,223	792	1,301	814	814	0	185	265	838	508	508	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	144	1,494	1,482	949	813	0	813	1,092	997	602	605	0	605
Clark U.	145	11	115	724	808	797	11	0	104	711	797	797	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
George Mason U.	146	490	628	402	800	76	724	284	239	290	269	73	196
Oregon Health and Science U.	147	0	0	0	799	0	799	0	0	0	799	0	799
St. Edward's U.	148	1,334	372	980	795	275	520	1,090	184	950	775	275	500
U. Miami	149	1,530	2,353	1,403	791	0	791	1,236	1,410	1,025	603	0	603
U. Virginia, Charlottesville	150	0	98	391	769	0	769	0	0	0	0	0	0
U. Massachusetts, Lowell	151	0	233	457	725	0	725	0	0	0	0	0	0
Texas A&M U.-Commerce	152	207	255	688	723	723	0	16	25	15	18	18	0
Baylor U.	153	192	440	576	666	221	445	67	204	131	200	177	23
Hawaii Pacific U.	154	873	712	700	654	654	0	873	712	700	654	654	0
Montclair State U.	155	155	470	582	649	17	632	42	323	110	75	14	61
Alabama A&M U.	156	1,419 i	1,172 i	925 i	630 i	502 i	128 i	766 i	592 i	419 i	285 i	209 i	76 i
Appalachian State U.	156	456	429	258	630	87	543	301	219	99	56	27	29
U. Southern Maine	158	836	768	750	611	424	187	2	9	12	12	1	11
San Francisco State U.	159	0	221	581	601 i	0 i	601 i	0	3	146	152 i	0 i	152 i
Georgia State U.	160	320	382	592	596	596	0	53	15	54	142	142	0
Western Kentucky U.	161	507	545	548	581	581	0	229	237	334	430	430	0
Middle Tennessee State U.	162	385	433	640	558	378	180	221	273	362	481	301	180

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Bowling Green State U.	163	91	97	463	553	398	155	38	49	81	154	92	62
U. Nebraska, Kearney	164	723	451	692	546	178	368	251	296	420	303	95	208
Western U. of Health Sciences	165	184	367	492	533	533	0	50	210	430	456	456	0
U. South Florida, Saint Petersburg	166	335	498	499	528	0	528	143	316	270	230	0	230
Loyola U., Chicago	167	750	724	616	483	0	483	360	506	470	249	0	249
U. Oregon	167	909	947	778	483	0	483	608	793	659	406	0	406
Albany State U.	169	482	429	892	479	209	270	142	255	484	270	0	270
U. North Texas, Denton	169	20	0	213	479	479	0	14	0	189	136	136	0
Carnegie Mellon U.	171	746	878	774	476	476	0	609	780	685	427	427	0
Rhode Island School of Design	171	9 i	76 i	500 i	476 i	0 i	476 i	0 i	12 i	177 i	170 i	0 i	170 i
Texas A&M U.-Corpus Christi	173	227	82	177	464	17	447	69	15	137	309	17	292
Arizona State U.	174	257	21	764	457	0	457	139	11	6	57	0	57
William & Mary	175	424	1,338	778	453	453	0	257	334	366	294	294	0
U. Texas, Arlington	176	0	464	517	441	0	441	0	8	4	1	0	1
U. Notre Dame	177	1,340	1,405	993	424	424	0	0	0	0	0	0	0
California State U., San Bernardino	178	767	498	509	400	400	0	582	439	447	346	346	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total										Federally financed									
		Agricultural sciences and natural resources conservation						Agricultural sciences		Natural resources and conservation		Agricultural sciences and natural resources conservation						Agricultural sciences		Natural resources and conservation	
		2017		2018		2019		2020		2020		2017		2018		2019		2020		2020	
Colorado School of Mines	179	0		29		288		392		382		10		0		29		288		146		146		0	
Texas State U.	180	331		386		349		376		376		0		311		331		296		291		291		0	
U. Pittsburgh, Pittsburgh	181	0		0		0		373		373		0		0		0		0		248		248		0	
California State U., Fullerton	182	36		299		416		338		223		115		21		277		340		299		223		76	
Sam Houston State U.	183	59		105		289		330		330		0		41		78		283		258		258		0	
Georgia Southern U.	184	0		0		120		323		34		289		0		0		73		59		23		36	
California State U., Sacramento	185	86		353		286		321		0		321		3		264		268		309		0		309	
U. Texas, Tyler	185	268		206		215		321		146		175		0		13		0		146		146		0	
Santa Clara U.	187	230		222		409		300		0		300		127		59		198		37		0		37	
U. Denver	188	125		156		251		298		0		298		125		115		221		280		0		280	
U. Houston	189	99		20		153		295		40		255		99		20		153		284		29		255	
U. North Carolina, Asheville	190	270		764		222		292		0		292		0		222		29		57		0		57	
U. Wisconsin-Platteville	191	124	i	ne		280	i	285	i	207	i	78	i	43	i	ne		77	i	76	i	59	i	17	i
Eastern Michigan U.	192	226		198		85		274		0		274		101		69		46		58		0		58	
U. Nevada, Las Vegas	193	0		49		194		273		65		208		0		42		149		185		65		120	
Old Dominion U.	194	0		0		8		267		0		267		0		0		8		0		0		0	
U. Louisiana, Lafayette	195	9		34		1,647		262		262		0		0		0		213		122		122		0	
Des Moines U.	196	0		0		0		261		261		0		0		0		0		261		261		0	

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
		2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
U. Washington, Bothell	196	0	0	88	261	172	89	0	0	0	261	172	89
California State U., Northridge	198	0	196	273	252	252	0	0	196	273	252	252	0
Dickinson C.	199	62	ne	211	238	0	238	51	ne	101	68	0	68
U. Memphis	200	0	0	26	232	232	0	0	0	0	0	0	0
U. Missouri, Saint Louis	201	230	221	411	229	11	218	59	16	202	217	0	217
Morgan State U.	202	853	435	139	224	224	0	288	214	68	25	25	0
Sonoma State U.	203	ne	ne	ne	214	0	214	ne	ne	ne	0	0	0
Southern U. and A&M C., Baton Rouge	204	219	184	210	208	122	86	157	184	210	208	122	86
Minnesota State U., Mankato	205	0	17	0	205	205	0	0	17	0	205	205	0
U. Northern Iowa	206	110	199	152	201	201	0	24	67	78	94	94	0
U. Dayton	207	73	454	237	199	0	199	36	391	212	165	0	165
California State U., Channel Islands	208	35	133	157	194	0	194	21	107	64	151	0	151
Hofstra U.	209	9	3	34	191	0	191	3	3	0	0	0	0
U. South Dakota	209	0	30	0	191	0	191	0	0	0	0	0	0
U. Alaska, Southeast	211	212	271	224	187	105	82	190	271	173	139	96	43
Illinois State U.	212	352	256	50	184	184	0	26	23	30	29	29	0
Eastern Washington U.	213	0	354	281	176	0	176	0	354	281	176	0	176

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Salish Kootenai C.	214	116	94	213	172	95	77	116	94	213	172	95	77
U. Washington, Tacoma	215	0	23	563	163	0	163	0	23	385	161	0	161
U. Wisconsin-Green Bay	216	0 i	24 i	174 i	159 i	131 i	28 i	0 i	7 i	39 i	42 i	31 i	11 i
Ball State U.	217	59	49	79	155	0	155	4	0	0	28	0	28
CUNY, Graduate School of Public Health and Health Policy	218	na	0	0	154	154	0	na	0	0	154	154	0
U. North Carolina, general administration	219	0	0	0	148	75	73	0	0	0	0	0	0
Tulane U.	220	388	431	384	133	0	133	353	282	130	94	0	94
Florida Gulf Coast U.	221	0	55	36	128	26	102	0	0	22	42	26	16
Wake Forest U.	222	0	0	0	126	0	126	0	0	0	0	0	0
U. Wisconsin-River Falls	223	110	79	ne	125	125	0	16	0	ne	64	64	0
U. Nebraska, Omaha	224	15	30	19	115	84	31	3	9	4	0	0	0
Pittsburg State U.	225	2	27	100	113	0	113	0	0	11	61	0	61
Troy U.	226	ne	ne	ne	112	12	100	ne	ne	ne	112	12	100
U. Louisville	227	206	137	4	109	0	109	66	8	0	0	0	0
James Madison U.	228	0	40	80	105	12	93	0	0	69	85	0	85
Texas A&M International U.	229	48	78	66	104	0	104	48	77	12	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total										Federally financed									
		Agricultural sciences and natural resources conservation								Agricultural sciences		Natural resources and conservation		Agricultural sciences and natural resources conservation						Agricultural sciences		Natural resources and conservation	
Institution	Rank	2017		2018		2019		2020		2020		2020		2017		2018		2019		2020		2020		2020	
Northwest Indian C.	230	ne		242		104		103	i	103	i	0	i	ne		242		104		103	i	103	i	0	i
Chapman U.	231	274		241		147		102		102		0		200		186		0		102		102		0	
C. Charleston	232	131		156		132		100		0		100		54		105		75		58		0		58	
Northern Michigan U.	233	2		0		0		97		0		97		2		0		0		97		0		97	
U. Mississippi	234	20		12		0		96		96		0		15		9		0		96		96		0	
Occidental C.	235	0		172		179		90		90		0		0		172		179		90		90		0	
Morehead State U.	236	4		17		10		88		38		50		0		10		0		12		12		0	
Marquette U.	237	94		36		92		84		84		0		24		36		92		84		84		0	
U. New England	238	21		39		85		82		22		60		0		3		27		28		0		28	
East Carolina U.	239	262		66		0		79		79		0		112		28		0		9		9		0	
Carleton C.	240	0		0		0		78		0		78		0		0		0		0		0		0	
St. Olaf C.	240	18		24		85		78		48		30		0		0		68		40		40		0	
Johnson C. Smith U.	242	25		36		116		76		0		76		0		0		0		76		0		76	
Murray State U.	242	29		23		88		76		76		0		0		0		52		43		43		0	
Western Carolina U.	244	66		86		116		75		75		0		56		73		98		63		63		0	
Florida Atlantic U.	245	1,025		259		249		73		73		0		267		259		249		67		67		0	
Creighton U.	246	0	i	90	i	88	i	72	i	0	i	72	i	0	i	10	i	14	i	12	i	0	i	12	i
Barnard C.	247	0		0		21		67		67		0		0		0		10		57		57		0	
Oregon Institute of Technology	247	189	i	59	i	90	i	67	i	0	i	67	i	189	i	59		90	i	67		0		67	
SUNY, Binghamton U.	249	0		4		109		66		0		66		0		0		0		0		0		0	
Bryn Mawr C.	250	0		0		0		65		0		65		0		0		0		0		0		0	

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
New Mexico Highlands U.	251	299	4	ne	55	0	55	293	0	ne	55	0	55
New School	252	0	0	23	54	0	54	0	0	0	0	0	0
Alfred U.	253	0	0	98	52	52	0	0	0	98	52	52	0
Purdue U., Northwest	254	0	0	0	50	50	0	0	0	0	40	40	0
Pacific U.	255	0	163	569	48	0	48	0	0	13	0	0	0
Texas Christian U.	256	0	0	57	47	47	0	0	0	0	47	47	0
Stockton U.	257	ne	0	0	46	46	0	ne	0	0	46	46	0
U. Colorado Denver and Anschutz Medical Campus	257	42	64	82	46	15	31	42	64	82	46	15	31
Southern Connecticut State U.	259	0	60	71	44	37	7	0	47	68	22	22	0
Miami U.	260	3	86	48	42	42	0	2	86	0	0	0	0
U. Puerto Rico, Cayey	261	47	10	45	40	0	40	47	10	45	40	0	40
Alaska Pacific U.	262	7	34	71	38	38	0	7	19	71	38	38	0
Black Hills State U.	262	0	0	0	38	0	38	0	0	0	31	0	31
U. San Francisco	264	0	9	31	37	0	37	0	0	0	0	0	0
Colorado C.	265	94	73	190	35	0	35	25	32	103	0	0	0
Kent State U.	265	220	0	93	35	0	35	215	0	0	3	0	3
Midwestern U.	267	0	0	6	33	33	0	0	0	6	33	33	0
Fisk U.	268	0	0	0	32	0	32	0	0	0	32	0	32
Temple U.	269	671	393	194	30	30	0	168	175	194	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Northern Illinois U.	270	29	0	0	29	0	29	29	0	0	25	0	25
U. Louisiana, Monroe	270	17	22	34	29	29	0	0	0	0	0	0	0
Loyola Marymount U.	272	0	0	0	28	28	0	0	0	0	28	28	0
Texas Woman's U.	272	0	213	50	28	28	0	0	213	50	28	28	0
U. Puerto Rico, Humacao	274	ne	0	11	26	0	26	ne	0	2	26	0	26
U. Toledo	274	524	74	338	26	26	0	70	54	311	19	19	0
Fort Lewis C.	276	ne	ne	0	23	0	23	ne	ne	0	21	0	21
William Paterson U.	277	110	0	0	22	0	22	10	0	0	22	0	22
Benedict C.	278	0	0	0	21	0	21	0	0	0	21	0	21
Central Washington U.	278	0	0	0	21	0	21	0	0	0	19	0	19
Saginaw Valley State U.	280	68	42	20	20	20	0	0	0	0	0	0	0
Dine C.	281	ne	215	330	19	19	0	ne	215	330	19	19	0
Northern Kentucky U.	282	0	0	17	17	0	17	0	0	0	0	0	0
U. North Carolina, Chapel Hill	282	29	12	38	17	0	17	0	0	0	0	0	0
Kennesaw State U.	284	0	0	19	16	16	0	0	0	19	0	0	0
C. Wooster	285	33	25	26	15	15	0	33	25	26	5	5	0
U. Colorado Colorado Springs	286	0	0	0	13	4	9	0	0	0	0	0	0
U. Minnesota, Morris	286	20	ne	13	13	0	13	0	ne	0	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
Keene State C.	288	0	ne	7	11	0	11	0	ne	7	11	0	11
Towson U.	289	0	80	76	10	0	10	0	80	76	0	0	0
U. Arkansas, Little Rock	289	17	12	23	10	0	10	10	2	21	9	0	9
Vanderbilt U. and Vanderbilt U. Medical Center	289	0	228	4	10	0	10	0	140	4	10	0	10
Bates C.	292	32	0	30	9	0	9	0	0	0	0	0	0
Mills C.	293	0	0	19	8	0	8	0	0	0	0	0	0
U. North Georgia	293	1	2	106	8	0	8	0	2	16	8	0	8
CUNY, John Jay C. of Criminal Justice	295	0	0	0	7	7	0	0	0	0	7	7	0
Roger Williams U.	296	0	28	33	6	6	0	0	0	0	0	0	0
Claremont McKenna C.	297	0	2	1	4	0	4	0	0	0	0	0	0
Eastern Kentucky U.	297	2	5	6	4	4	0	0	0	0	0	0	0
St. Cloud State U.	297	0	0	10	4	0	4	0	0	0	0	0	0
U. Illinois, Springfield	297	14	19	4	4	0	4	0	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	297	17	81	27	4	0	4	0	40	1	0	0	0

TABLE 43

Total and federally financed higher education R&D expenditures in the agricultural sciences and natural resources and conservation, ranked by FY 2020 agricultural sciences and natural resources conservation total: FYs 2017–20

(Dollars in thousands)

		Total						Federally financed					
		Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation	Agricultural sciences and natural resources conservation				Agricultural sciences	Natural resources and conservation
Institution	Rank	2017	2018	2019	2020	2020	2020	2017	2018	2019	2020	2020	2020
East Tennessee State U.	302	0	0 i	0 i	3 i	3 i	0 i	0	0	0	2	2	0
Monmouth U.	302	ne	ne	93	3	3	0	ne	ne	0	0	0	0
U. South Carolina, Columbia	302	6,408	7,158	5,470	3	0	3	3,193	3,911	3,297	0	0	0
Gallaudet U.	305	1	10	7	2	0	2	1	10	5	0	0	0
Pennsylvania State U., Harrisburg	305	0	93	89	2	2	0	0	57	5	2	2	0
U. Alabama, Huntsville	305	0	0	0	2	2	0	0	0	0	0	0	0
U. Puget Sound	305	0	ne	ne	2	0	2	0	ne	ne	0	0	0
DePaul U.	309	0	0	19	1	0	1	0	0	1	0	0	0
Fort Hays State U.	309	ne	ne	0	1	1	0	ne	ne	0	0	0	0
U. Central Florida	309	28	3	1	1	1	0	0	0	0	0	0	0
Wellesley C.	309	0	0	133	1	1	0	0	0	111	0	0	0
All other surveyed institutions	-	121,843	133,871	55,535	0	0	0	52,742	62,186	18,437	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	13,722,803	14,516,633	15,392,567	15,761,876	8,179,596	8,572,870	9,263,466	9,339,917
U. Pennsylvania	1	692,343	727,296	743,835	780,497	366,337	373,564	390,906	390,309
Harvard U.	2	479,595	486,362	536,371	534,656	286,092	299,638	337,304	325,366
Scripps Research Institute	3	354,582	396,839	427,734	444,964	250,090	267,088	267,122	243,502
Icahn School of Medicine at Mount Sinai	4	275,705	300,271	359,149	359,900	159,892	169,196	198,767	208,188
Washington U., Saint Louis	5	297,046	327,959	354,062	359,856	188,943	198,645	211,425	216,565
Rockefeller U.	6	314,916	319,636	318,581	322,734	75,193	76,714	75,507	78,153
Cornell U.	7	299,232	298,172	314,443	311,954	127,657	128,421	146,718	153,222
Baylor C. of Medicine	8	319,076	309,943	298,881	311,546	191,895	189,614	171,688	166,676
Johns Hopkins U.[a]	9	289,980 i	288,079 i	326,327 i	311,295 i	201,514	194,395	228,297	221,384
U. Texas M. D. Anderson Cancer Center	10	309,987	283,074	289,848	304,198	71,042	72,068	74,738	64,702
U. Pittsburgh, Pittsburgh	11	255,233	279,951	294,582	294,183	176,416	185,759	189,292	189,410
U. Wisconsin-Madison	12	194,360	220,658	261,715	277,654	111,331	138,453	161,268	162,347
U. Michigan, Ann Arbor	13	216,493	230,944	258,013	266,507	149,399	154,781	176,626	180,703
U. Washington, Seattle	14	255,654	288,723	257,677	260,831	164,641	177,908	152,127	153,375
New York U.	15	166,380	241,316	250,281	250,446	110,917	132,039	138,450	147,771
Duke U.	16	207,819	221,378	237,097	245,327	161,533	172,875	189,808	195,787
U. Virginia, Charlottesville	17	105,312	199,462	212,843	230,231	67,457	104,569	118,802	128,995
Stanford U.	18	185,054	188,026	189,727	228,842	142,966	148,089	150,221	179,023
U. California, Davis	19	200,810	220,855	224,044	218,316	121,310	136,830	140,036	136,739
U. Texas Southwestern Medical Center	20	156,544	161,587	177,357	214,795	72,552	72,589	75,227	88,551
U. Arizona	21	147,594	174,310	200,691	212,741	66,908	72,873	96,689	101,105
Yale U.	22	177,565	187,310	208,829	206,929	113,117	131,070	141,401	140,048
Columbia U. in the City of New York	23	172,179	181,521	196,254	206,509	135,559	144,946	158,280	168,917
Vanderbilt U. and Vanderbilt U. Medical Center	24	164,993	170,095	172,681	183,620	91,331	98,642	102,998	109,381
Emory U.	25	184,693	184,096	187,084	182,193	145,302	141,403	148,788	144,201
U. Kentucky	26	142,104	161,764	178,030	175,026	67,091	76,484	92,761	93,567
U. North Carolina, Chapel Hill	27	164,272	157,615	165,804	167,907	113,690	114,659	125,292	123,492

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Maryland[b]	28	na	na	152,853	166,254	na	na	104,187	114,209
Boston U.	29	99,214	112,076	150,669	163,939	70,724	72,295	98,855	110,627
Northwestern U.	30	130,422	128,409	141,523	153,629	87,277	85,061	92,458	99,378
U. Georgia	31	158,302	135,348	140,018	143,796	71,127	67,061	72,403	78,657
U. Texas Medical Branch	32	133,389	129,408	130,473	137,316	73,357	72,829	79,850	86,048
U. Massachusetts, Medical School	33	85,880	83,615	134,842	137,103	60,409	60,397	98,979	96,954
U. Alabama, Birmingham	34	121,086	122,978	137,196	132,963	86,350	86,516	99,731	98,997
U. Southern California	35	126,927	137,003	140,622	132,168	84,469	87,707	93,324	91,893
U. California, Berkeley	36	85,771	96,014	104,849	130,392	50,189	53,745	57,666	67,501
U. Iowa	37	118,976	127,863	122,729	126,870	69,717	71,337	73,711	78,419
U. Florida	38	128,705	135,774	143,488	125,655	64,771	71,623	70,530	61,336
Indiana U., Bloomington	39	92,024	111,097	116,176	123,811	62,204	66,112	79,405	81,032
North Carolina State U.	40	110,122	108,990	120,567	120,671	38,257	42,858	44,058	42,625
Michigan State U.	41	113,371	113,287	119,653	117,715	53,661	55,685	60,584	61,131
U. California, Irvine	42	68,604	87,482	103,711	114,449	43,321	51,035	61,632	64,157
Rutgers, State U. New Jersey, New Brunswick	43	90,391	76,998	91,356	113,712	53,185	54,571	52,365	57,418
Cold Spring Harbor Laboratory	44	97,288	115,302	125,151	113,394	54,260	66,716	72,319	60,487
U. Minnesota, Twin Cities	45	101,566	108,847	101,129	111,883	51,912	53,029	55,639	63,674
U. Nebraska, Medical Center	46	93,538	87,765	103,618	105,620	50,964	60,538	70,813	70,536
Pennsylvania State U., University Park and Hershey Medical Center	47	80,560	90,168	84,873	98,382	48,044	48,689	51,335	56,971
Tufts U.	48	100,615	34,372	80,921	92,119	66,217	25,340	58,033	69,674
U. South Florida, Tampa	49	127,159	116,411	115,159	90,898	83,465	83,905	85,703	64,867
California Institute of Technology	50	74,998	76,044	84,558	89,580	52,373	54,071	60,603	65,017
SUNY, U. Buffalo	51	71,749	76,477	82,365	88,070	41,733	40,689	42,370	47,604
Dartmouth C. and Dartmouth Hitchcock Medical Center	52	88,109	87,469	90,029	84,528	48,003	48,748	48,255	49,057
Medical C. Wisconsin	53	68,694	74,302	80,531	83,882	44,317	44,245	45,066	47,297

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Ohio State U.	54	66,212	68,305	76,202	83,715	44,585	46,189	51,272	58,581
U. Chicago	55	83,892	81,872	86,619	83,295	65,117	61,084	66,862	67,334
Case Western Reserve U.	56	70,184	79,653	77,957	82,470	55,415	64,236	65,059	69,339
Princeton U.	57	69,507	80,786	87,248	81,137	42,586	46,563	52,855	50,581
U. Illinois, Chicago	58	70,453	71,150	74,126	81,071	42,491	43,533	45,838	42,919
U. Miami	59	49,565	53,646	67,787	78,338	36,999	40,358	56,865	64,201
U. Illinois, Urbana-Champaign	60	58,090	64,375	66,393	77,458	35,060	35,615	39,824	44,234
Texas A&M U., College Station and Health Science Center	61	56,657	69,786	72,472	77,408	31,594	39,581	46,051	50,356
U. Connecticut	62	62,173	62,683	69,141	75,806	40,486	39,866	46,453	49,480
Thomas Jefferson U.	63	57,255	64,509	73,544	74,942	34,498	36,194	42,959	42,244
U. Louisiana, Lafayette	64	20,954	62,238	16,539	68,528	7,461	11,620	5,706	11,539
U. Texas Health Science Center, San Antonio	65	57,808	61,000	62,855	67,851	37,617	39,389	42,261	49,214
U. Arkansas for Medical Sciences	66	38,959	43,473	52,686	67,447	23,811	31,028	32,967	38,357
Massachusetts Institute of Technology	67	68,109	75,156	82,262	67,446	42,111	47,512	44,519	42,112
Arizona State U.	68	82,329	96,535	67,597	63,293	49,705	52,837	31,588	35,741
U. Texas, Austin	69	53,273	66,148	58,063	62,802	31,905	45,915	39,470	38,317
U. California, San Diego	70	43,526	57,996	64,858	62,532	26,794	31,178	36,228	36,347
Medical U. South Carolina	71	65,344	65,313	67,708	62,475	47,000	48,808	51,154	49,032
U. Kansas	72	61,354	58,052	62,491	62,277	35,819	36,574	38,434	38,670
U. Cincinnati	73	55,554	56,993	58,504	62,270	31,051	28,826	30,186	35,074
SUNY, Stony Brook U.	74	39,739	52,172	60,050	61,121	28,481	37,236	37,657	39,569
U. California, Riverside	75	55,461	56,847	58,738	60,674	19,523	18,234	19,808	25,037
U. Louisville	76	52,018	56,117	55,219	60,608	33,426	36,162	39,225	39,447
Van Andel Research Institute	77	23,406 i	55,171	61,738	58,982	13,108	14,285	18,259	18,538
Brown U.	78	35,578	44,244	51,017	57,280	27,833	33,537	37,878	41,143
Louisiana State U., Baton Rouge	79	56,590	55,119	57,732	56,483	31,986	27,594	28,862	26,797
U. Vermont	80	36,072	40,394	46,795	54,565	27,555	29,532	35,346	37,701
U. Texas Health Science Center, Houston	81	50,298	54,940	55,055	54,213	34,697	37,348	38,689	35,502
U. Rochester	82	48,761	53,493	53,241	54,066	38,063	40,933	43,634	44,908

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Virginia Commonwealth U.	83	46,806	46,022	50,240	53,656	38,710	36,713	39,483	40,720
U. Hawaii, Manoa	84	38,129	53,826	54,997	53,100	14,030	17,957	18,542	16,953
George Washington U.	85	46,810	56,145	54,126	52,902	28,187	35,501	35,141	33,137
U. Missouri, Columbia	86	59,437	57,829	55,276	50,323	40,865	39,559	41,455	39,472
Georgia State U.	87	37,858	51,668	48,140	50,131	21,888	23,612	23,302	24,615
Temple U.	88	48,976	49,745	47,651	43,913	35,004	36,353	34,253	34,298
U. Oklahoma, Norman and Health Science Center	89	34,748	35,948	37,322	43,605	20,497	22,620	23,109	28,155
Cleveland State U.	90	44,403	42,253	40,075	43,464	38,383	38,203	35,061	40,320
U. Colorado Boulder	91	25,393	30,851	41,686	41,081	22,374	24,907	35,165	34,958
Augusta U.	92	37,664	36,335	36,815	40,513	24,157	24,962	24,358	29,605
Virginia Polytechnic Institute and State U.	93	50,905	51,145	46,123	40,276	18,832	19,187	18,532	15,769
U. Utah	94	50,471	20,288 i	16,890 i	40,013 i	33,572	14,047	10,592	24,860
Colorado State U., Fort Collins	95	32,767	36,844	40,348	39,769	23,005	23,392	25,346	23,865
Florida International U.	96	28,504	31,331	33,053	39,760	14,755	16,457	16,837	19,181
Iowa State U.	97	69,333	62,125	56,405	39,072	30,468	25,824	26,626	18,255
Tulane U.	98	29,322	33,655	30,686	39,053	17,957	21,809	22,410	26,219
Oregon State U.	99	36,697	34,352	34,305	38,938	22,601	24,323	24,413	27,860
Drexel U.	100	42,521	42,647	41,484	38,200	24,616	25,618	25,535	24,521
U. Nevada, Reno	101	33,058	31,513	32,985	36,791	21,855	15,433	17,099	18,123
Washington State U.	102	44,943	41,126	41,122	35,845	24,797	25,355	25,006	21,674
Purdue U., West Lafayette	103	16,548	20,819	25,238	34,790	9,416	12,874	12,048	13,534
U. California, Los Angeles	104	33,896	38,362	38,154	34,022	23,161	24,572	24,564	22,266
U. Oregon	105	30,835	34,474	34,751	33,631	26,838	25,062	28,993	28,932
SUNY, Downstate Medical Center	106	30,512	34,476	35,422	32,389	21,135	26,117	26,744	26,171
Kansas State U.	107	23,382	31,202	30,002	30,940	10,468	14,072	13,583	14,289
U. Nebraska, Lincoln	108	29,240	28,530	29,626	30,234	11,764	10,914	11,404	12,887
U. New Mexico	109	30,906	33,124	30,297	28,740	24,975	27,509	25,369	23,802
Clemson U.	110	22,194	24,282	25,381	28,361	7,445	7,421	8,049	8,494
Saint Louis U.	111	23,356	23,071	25,209	27,623	13,022	12,310	13,370	13,489
SUNY, U. Albany	112	27,561	32,153	32,595	27,543	17,894	19,878	19,522	17,227
U. Notre Dame	113	26,885	25,857	26,385	27,095	11,737	11,043	13,259	11,155

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Oregon Health and Science U.	114	142,992	154,478	150,395	26,551	101,240	114,716	122,388	20,651
U. Massachusetts, Amherst	115	20,051	22,897	24,678	25,906	11,801	13,759	14,835	15,754
West Virginia U.	116	17,397	17,860	18,919	25,158	9,973	9,954	9,967	12,150
George Mason U.	117	12,803	10,031	9,520	25,142	9,380	7,049	6,580	5,178
U. California, Santa Cruz	118	22,706	21,950	23,762	24,318	16,353	15,425	15,861	16,755
U. California, Santa Barbara	119	24,818	28,520	27,718	24,077	12,183	14,665	15,351	12,288
Wayne State U.	120	30,522	27,671	30,203	24,007	19,562	17,035	18,330	14,506
Northern Arizona U.	121	18,223	22,687	26,194	23,741	10,799	13,836	18,081	15,010
U. Texas, San Antonio	122	16,323	15,062	20,972	23,733	8,124	7,819	11,309	9,925
Florida State U.	123	21,527	22,880	24,383	22,836	11,630	12,366	13,487	12,479
U. Idaho	124	18,303	17,385	19,378	22,764	11,767	10,754	13,092	17,044
U. Tennessee, Knoxville[c]	125	12,741	16,939	17,425	22,643	8,029	8,247	8,087	10,968
U. Montana, Missoula	126	17,620	17,081	20,283	22,464	12,275	12,101	11,575	15,437
U. Tennessee, Health Science Center	127	16,311	15,901	18,079	22,245	12,981	12,182	14,535	19,859
Texas Tech U., Health Sciences Center	128	16,459	15,401	20,207	21,528	4,847	4,108	7,666	9,477
U. Texas Health Science Center, Tyler	129	14,555	17,949 i	19,606 i	21,265	4,055	6,438 i	7,084 i	7,732
Brandeis U.	130	30,140 i	24,400	22,063	21,190	23,702	19,117	19,823	20,298
Montana State U., Bozeman	131	15,363	16,600	19,659	19,994	11,165	13,148	14,355	14,059
Oklahoma State U., Stillwater	132	32,697	34,590	19,934	19,956	13,128	12,518	7,680	7,699
Louisiana State U., Health Sciences Center, New Orleans	133	18,285	18,827	18,839	19,533	14,104	15,141	16,081	16,359
Georgia Institute of Technology	134	18,607	26,327	24,989	18,410	11,173	15,783	15,498	9,186
U. South Carolina, Columbia	135	12,560	12,482	13,120	18,374	6,951	8,654	10,225	10,663
U. Rhode Island	136	6,667	9,141	13,997	18,161	5,914	8,068	11,877	15,256
U. North Texas, Health Science Center	137	19,505	19,354	20,989	17,823	9,036	7,239	8,378	6,661
U. North Dakota	138	18,794	18,184	16,722	17,478	9,381	8,856	7,707	8,147
Albany Medical C.	139	14,380	14,368	16,236	17,150	10,800	9,912	11,220	12,263

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Florida Atlantic U.	140	9,984	11,013	13,061	16,997	2,111	2,372	3,616	6,357
U. Texas, El Paso	141	17,871	17,475	20,446	16,280	10,941	9,515	9,607	8,015
Rice U.	142	13,593	14,193	13,966	16,008	7,686	7,813	8,245	8,540
U. Mississippi	143	22,258	29,293	33,394	15,866	15,689	20,648	26,331	11,028
Loyola U., Chicago	144	14,148	12,873	14,788	15,804	9,567	8,743	10,413	11,042
Auburn U., Auburn	145	10,317	11,229	13,317	15,224	4,538	5,741	5,412	5,918
U. South Dakota	146	14,733	15,990	16,612	15,109	8,956	9,639	9,315	9,131
Georgetown U.	147	13,729	12,679	14,202	14,827	10,634	9,221	10,309	9,790
U. Central Florida	148	12,093	12,483	13,148	14,746	7,933	7,963	8,324	10,063
Northeastern U.	149	15,712	15,224	14,380	14,718	10,692	10,736	10,474	12,023
SUNY, Upstate Medical U.	150	14,802	14,971	15,003	14,671	8,696	8,467	11,886	10,783
U. Wyoming	151	8,749	9,277	13,913 i	14,659	6,420	7,591	11,223	13,246
San Diego State U.	152	14,921	14,575	12,720	14,602	6,961	7,307	5,833	6,374
Meharry Medical C.	153	16,782	16,980	18,286	13,870	15,613	14,515	16,443	12,573
Rush U.	154	13,966	14,016	18,302	13,822	12,924	13,484	17,357	12,252
Rosalind Franklin U. of Medicine and Science	155	15,386	14,266	14,625	12,825	8,379	8,626	8,135	7,651
U. Nevada, Las Vegas	156	2,597	7,898	10,027	12,763	1,758	5,314	6,140	8,177
Texas Tech U.	157	12,609	12,545	14,796	12,709	1,919	1,556	2,663	1,723
Rutgers, State U. New Jersey, Newark	158	12,005	9,541	10,800	12,676	8,700	6,846	5,847	7,681
U. Houston	159	11,012	10,112	12,863	12,625	4,524	5,297	8,037	7,235
U. Alaska, Fairbanks	160	11,550	6,607	7,064	12,603	8,263	4,621	4,540	10,426
Carnegie Mellon U.	161	9,979	9,426	12,103	12,566	5,412	5,181	7,540	8,344
San Francisco State U.	162	10,859	10,879	12,038	12,512 i	7,552	7,807	8,627	8,988 i
U. New Hampshire	163	6,263	12,196	12,981	11,697	3,208	8,653	8,470	7,420
U. Maine	164	9,747	9,760	10,759	10,949	3,405	4,890	4,757	4,992
Mississippi State U.	165	6,643	5,958	6,814	10,917	3,982	3,269	3,890	5,110
U. North Texas, Denton	166	8,539	9,685	10,319	10,805	2,254	2,626	2,780	2,197
Louisiana State U., Health Sciences Center, Shreveport	167	7,891	9,928	11,230	10,644	5,483	7,706	9,918	9,794

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
U. Colorado Denver and Anschutz Medical Campus	168	2,100		7,501		7,381		10,354		1,892		1,449		1,071		2,578	
Eastern Virginia Medical School	169	6,490		6,470		8,746		9,968		4,586		4,271		6,015		6,821	
New Mexico State U.	170	7,824		7,214		7,688		9,867		6,828		6,004		6,605		8,253	
Loma Linda U.	171	8,480		8,832	i	9,447	i	9,744	i	7,923		8,235	i	8,819	i	9,105	i
Old Dominion U.	172	6,057		9,337		9,952		9,611		1,498		2,138		1,929		1,867	
U. Nebraska, central administration	173	ne		5,070		6,872		9,514		ne		5,057		6,872		9,514	
U. Maryland, Baltimore County	174	3,498		4,888		8,282		9,422		2,419		3,491		7,244		7,913	
SUNY, C. of Environmental Science and Forestry	175	10,706		9,599		10,119		9,281		3,009		2,401		2,591		3,064	
U. Southern Mississippi	176	7,222		7,978		7,545		8,948		4,664		5,998		6,035		6,633	
Northeast Ohio Medical U.	177	6,719		7,606		8,481		8,678		4,842		5,675		6,336		7,209	
CUNY, Hunter C.	178	9,019		6,073		7,166		8,550		5,269		3,209		3,720		5,050	
U. Texas, Arlington	179	5,881		6,319		7,903		8,478		1,089		1,095		2,074		2,515	
Boston C.	180	12,967		11,319		12,312		8,248		10,875		9,582		10,395		6,057	
Boise State U.	181	7,170		7,428		7,701		8,089		4,940		4,908		4,907		5,371	
Illinois Institute of Technology	182	7,736		7,583		8,645		8,046		7,078		6,932		8,004		7,375	
Wright State U.	183	8,205		8,199		8,443		7,780		5,356		5,247		5,665		4,918	
Ohio U.	184	8,720	i	8,008	i	6,676		7,691		2,102		1,615		2,113		2,603	
Portland State U.	185	2,280		2,835		2,702		7,666		1,986		2,557		2,389		7,166	
U. California, Merced	186	4,809		5,880		8,620		7,563		1,307		1,548		3,282		3,335	
New York Medical C.	187	5,983	i	3,489	i	7,813	i	7,391		3,857	i	3,489	i	4,652	i	4,316	
Texas State U.	188	5,261		7,920		6,761		7,213		973		1,191		1,230		1,103	
Syracuse U.	189	6,850		6,507		7,738		7,080		3,815		3,188		3,545		3,734	
Indiana U.-Purdue U., Indianapolis	190	5,364		5,183		5,449		7,034		2,690		3,634		4,190		5,851	
North Carolina Central U.	191	5,721		6,916		7,314		6,873		4,774		6,581		7,084		6,362	
Delaware State U.	192	3,438		4,525		6,582		6,838	i	2,215		3,013		4,555		4,746	i
Midwestern U.	193	5,565		6,344		6,387		6,539		908		1,016		548		448	
Texas A&M U.-Corpus Christi	194	2,400		4,278		5,218		6,377		1,558		3,439		4,676		4,191	
U. Texas, Dallas	194	4,517		6,117		3,900		6,377		2,016		2,236		2,314		3,035	
U. Arkansas, Fayetteville	196	5,819		5,833		6,498		6,357		1,776		1,967		2,770		2,880	

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Kent State U.	197	3,448	3,815	5,919	6,330	1,173	1,597	2,895	2,624
Rensselaer Polytechnic Institute	198	5,448	5,431	5,384	6,102	2,812	2,903	3,609	4,483
Clark Atlanta U.	199	5,536	5,799	6,360	6,017	3,881	3,774	3,859	3,468
Creighton U.	200	7,070 i	5,948 i	7,033 i	5,976 i	2,514 i	1,811 i	2,648 i	2,430 i
East Tennessee State U.	201	4,032	5,091 i	7,316 i	5,949 i	3,902	3,735	5,555	4,219
Marquette U.	202	5,781	6,753	7,863	5,871	4,051	4,501	5,003	3,443
Western Michigan U. and Homer Stryker M.D. School of Medicine	203	4,592	4,405	4,532	5,859	1,299	1,972	1,962	2,015
Miami U.	204	4,484	5,152	6,078	5,852	3,386	4,055	4,578	3,760
U. Missouri, Kansas City	205	5,678	5,819	5,054	5,780	4,527	2,906	3,044	3,943
U. Toledo	206	5,344	5,554	5,834	5,710	4,118	3,147	2,867	2,730
Brigham Young U., Provo	207	5,910	6,548	5,135	5,643	3,156	2,545	2,742	3,131
U. Massachusetts, Lowell	208	3,420	4,533	5,331	5,523	2,378	2,862	2,953	3,156
U. Delaware	209	3,952	3,928	4,551	5,344	2,505	2,689	3,234	4,094
Howard U.	210	3,701	4,231	5,089	5,312	1,735	1,601	2,174	1,798
North Dakota State U.	211	3,207	3,262	3,364	5,106	1,148	1,349	1,854	2,235
Southern Illinois U., Carbondale	212	6,467	5,952	4,686	4,876	2,649	2,334	2,197	2,290
U. North Carolina, Wilmington	213	4,148	4,414	5,604	4,791	1,712	1,386	2,656	2,330
Kennesaw State U.	214	3,555	1,646	2,101	4,759	528	698	653	618
U. Memphis	215	4,104	5,330	5,032	4,754	1,858	3,407	2,960	2,339
Arkansas State U., Jonesboro	216	3,676	4,699	4,648	4,707	1,546	2,346	2,109	2,185
U. Alaska, Anchorage	217	4,960	3,713	4,874	4,665	3,465	3,015	3,907	3,606
Utah State U.	218	4,886	4,616	5,064	4,657	1,799	1,984	2,335	1,868
U. Massachusetts, Boston	219	3,242	3,996	5,118	4,610	2,328	2,908	3,211	2,827
SUNY, Binghamton U.	220	6,245	4,482	4,529	4,595	862	1,258	910	954
U. Denver	221	2,711	3,682	4,137	4,591	1,227	1,946	2,284	2,441
Baylor U.	222	3,037	2,622	2,938	4,523	530	832	867	1,930
Chapman U.	223	938	2,880	4,414	4,374	600	1,081	2,504	2,519
U. North Carolina, Greensboro	224	2,745	2,972	4,561	4,352	1,874	2,038	3,347	3,013
U. Wisconsin-Milwaukee	225	1,609	2,281	2,772	4,150	1,090	1,347	1,832	2,489

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Texas Rio Grande Valley	226	3,071	2,458	4,472	4,093	2,606	2,036	2,684	2,225
Lehigh U.	227	2,335	2,814	4,448	4,073	1,269	2,152	3,846	3,834
U. Detroit Mercy	228	2,229	4,317	4,729	4,019	2,185	4,275	4,682	3,984
Western U. of Health Sciences	229	4,125	2,662	2,921	4,010	2,501	1,815	2,102	3,585
California State U., Northridge	230	2,390	3,374	3,232	3,875	1,582	2,097	2,346	2,980
Central Michigan U.	231	3,498	4,227	4,997	3,874	2,661	3,211	3,754	3,071
Marshall U.	232	3,978	4,690	4,753	3,800	2,449	1,827	2,263	1,964
U. New England	233	3,636	3,453	3,909	3,742	2,823	2,822	2,818	2,927
CUNY, Advanced Science Research Center	234	659	1,709	3,130	3,733	488	1,231	2,749	3,304
South Dakota State U.	235	3,063	3,683	3,648	3,689	1,107	1,723	1,901	1,813
Duquesne U.	236	2,959	4,142	3,645	3,648	828	1,420	1,176	1,178
U. Alabama, Tuscaloosa	237	3,406	3,790	3,536	3,602	1,481	1,930	1,911	2,119
U. Puerto Rico, Rio Piedras	238	3,499	2,396	3,657	3,590	1,872	1,296	2,897	2,884
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	239	2,973	3,379	3,624	3,587	162	177	148	297
Desert Research Institute	240	2,432	3,232	2,993	3,539	208	246	188	43
Wake Forest U.	241	2,057	2,369	3,042	3,538	1,830	2,123	1,856	2,459
Fisk U.	242	810	1,889	4,520	3,427	810	1,889	4,473	3,427
Oakland U.	243	1,511	1,369	3,678	3,323	1,109	979	1,598	1,664
Rowan U.	244	1,960	3,017	4,311	3,264	1,879	2,428	3,160	2,705
Wichita State U.	245	1,322	1,912	2,793	2,959	622	1,564	2,435	2,623
Morgan State U.	246	2,900	2,680	3,643	2,906	2,900	2,624	3,552	2,890
East Carolina U.	247	7,088	5,632	3,075	2,842	4,744	3,914	1,419	1,150
U. Arkansas, Little Rock	248	1,761	1,542	2,380	2,833	1,558	1,262	1,619	2,143
Des Moines U.	249	1,098	1,056	1,377	2,809	682	691	647	4
CUNY, City C.	250	6,150	5,059	3,655	2,752	5,403	4,484	2,864	2,012
Albany C. of Pharmacy and Health Sciences	251	2,393	1,296	3,033	2,732	508	692	1,476	1,111
Texas Southern U.	252	2,104	1,883	2,695	2,673	2,015	1,704	1,851	1,804
U. North Carolina, Charlotte	253	1,902	2,296	3,110	2,608	1,758	1,614	1,992	1,676
Touro U.	254	2,255	2,228	2,557	2,514	329	405	581	521
Idaho State U.	255	2,070	2,140	2,198	2,459	1,238	1,091	1,272	1,666

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Murray State U.	256	1,943	2,345	3,048	2,399	961	1,317	2,149	1,496
Michigan Technological U.	257	2,912	2,487	2,654	2,392	1,471	1,084	1,085	901
U. California, San Francisco	258	16,654	1,247	2,267	2,358	9,497	357	750	681
Texas Tech U., Health Sciences Center, El Paso	259	3,977	3,529	2,793	2,280	954	1,078	841	486
Tuskegee U.	260	186 i	151	2,230	2,274	151	151	1,719	1,753
U. Nebraska, Omaha	261	1,170	948	1,165	2,254	696	609	1,020	2,192
William & Mary	262	1,941	2,113	1,997	2,241	1,373	1,329	1,219	1,205
New Jersey Institute of Technology	263	2,671	2,500	3,051	2,209	834	936	1,384	1,109
Southern Methodist U.	264	1,094	1,305	1,533	2,144	857	979	1,283	1,061
Villanova U.	265	2,066	1,301	1,780	2,133	816	435	338	333
California State U., Long Beach	266	1,535	2,714	2,389	2,110	946	2,242	2,109	1,849
Worcester Polytechnic Institute	267	1,873	2,049	1,791	2,104	932	1,257	1,087	954
U. Alabama, Huntsville	268	1,107	1,712	1,928	2,046	282	561	675	583
Illinois State U.	269	1,853	2,158	2,992	2,008	1,547	1,672	2,500	1,692
California State U., Monterey Bay	270	2,121	2,115	2,116	2,006	2,082	2,042	1,993	1,859
U. Maryland Center for Environmental Science	271	1,328	2,182	2,402	1,978	1,116	1,706	1,702	1,261
SUNY, Polytechnic Institute	272	3,218	2,260	1,995	1,977	2,675	1,840	1,406	1,297
California State U., Los Angeles	273	721	1,394	2,424 i	1,949	709	1,394	1,715	1,512
California State Polytechnic U., Pomona	274	1,501	1,949	1,602	1,818	792	1,009	992	1,365
CUNY, Brooklyn C.	275	1,320	1,288	1,727 i	1,792	1,063	1,202	1,308 i	1,363
Alabama State U.	276	2,253	2,314	1,860	1,747	2,253	2,314	1,860	1,747
U. Akron	277	1,175	1,623	1,915	1,699	286	527	793	694
U. West Florida	278	2,066	1,790	1,337	1,690	241	209	218	409
Colorado State U., Pueblo	279	ne	ne	1,223	1,676	ne	ne	1,220	1,081
Smith C.	280	2,016	2,548	2,338	1,657	1,298	1,270	1,017	867
Langston U.	281	1,447 i	1,355 i	1,264	1,650	1,290 i	1,158 i	1,026	1,650

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
North Carolina Agricultural and Technical State U.	282	969	1,131	1,085	1,612	788	1,025	1,048	1,455
Reed C.	283	803	1,754	1,588	1,573	354	895	1,031	1,180
U. Missouri, Saint Louis	284	2,402	1,873	1,667	1,567	1,227	1,535	1,214	1,025
U. of the Virgin Islands	285	0	0	0	1,554	0	0	0	1,554
Colorado School of Mines	286	2,966	2,185	1,948	1,549	2,331	1,662	1,423	1,513
U. Hawaii, Hilo	287	1,597	1,539	1,754	1,548	1,237	1,125	1,437	1,145
San Jose State U.	288	1,036	1,014	1,130	1,542	595	821	1,002	1,268
Tennessee State U.	289	909	1,179	1,133	1,535	787	1,065	934	1,376
Uniformed Services U. of the Health Sciences	290	4,968	1,724	1,512	1,525	3,028	1,002	916	902
Alabama A&M U.	291	3,750 i	2,989 i	2,231 i	1,521 i	2,958 i	2,287 i	1,618 i	1,104 i
Wellesley C.	292	862	1,099	1,330	1,454	852	1,032	1,021	1,326
California State U., San Marcos	293	2,334	2,021	1,439	1,451	2,241	1,332	639	642
Fordham U.	294	2,353	2,382	1,819	1,435	1,285	996	995	883
MGH Institute of Health Professions	295	763	1,212	1,537	1,427	763	1,212	1,537	1,427
Montclair State U.	296	427	717	1,152	1,422	364	654	810	948
Ball State U.	297	1,164	1,279	1,569	1,412	519	638	666	689
California State U., Fullerton	298	1,281	1,415	1,799	1,395	1,042	1,104	1,519	1,262
U. Massachusetts, Dartmouth	299	2,074	2,181	1,956	1,390	844	903	621	253
Texas A&M U.-Kingsville	300	1,144	1,297	1,115	1,386	872	993	898	1,120
Sam Houston State U.	301	651	1,198	1,994	1,382	225	177	250	379
Middle Tennessee State U.	302	1,579	1,033	1,005	1,359	875	555	610	599
Eastern Michigan U.	303	639	877	1,065	1,350	135	261	504	763
Catholic U. of America	304	1,692	1,614	1,633	1,333	1,655	1,614	1,633	1,228
Western Kentucky U.	305	2,084	1,841	1,530	1,307	1,261	923	893	706
Humboldt State U.	306	1,592	2,273	1,059	1,302	246	291	174	552
CUNY, Queens C.	307	420	954	1,052	1,250	316	765	831	1,054

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Rochester Institute of Technology	308	561	871	903	1,238	418	590	594	668
American U.	309	1,617	1,168	1,225	1,235	615	359	505	476
Bowdoin C.	310	1,110	1,216	1,206	1,196	948	954	940	869
Naval Postgraduate School	311	330	1,244	1,800	1,185	330	1,244	1,800	1,185
South Carolina State U.	312	317	436 i	1,133	1,175 i	317	331 i	1,133	1,175 i
Tennessee Technological U.	313	326	257	972	1,167	135	110	702	870
Bates C.	314	733	592	792	1,166	521	506	719	1,095
California State U., Stanislaus	315	1,027	958	836	1,163	289	400	449	752
Clark U.	316	706	1,107	1,288	1,134	397	576	827	705
Indiana U. Pennsylvania	317	888	335	1,345	1,107	656	31	869	667
Dillard U.	318	283	486	1,270	1,099	246	270	414	500
James Madison U.	318	690	957	771	1,099	562	503	629	533
U. Minnesota, Duluth	320	1,104	1,211	1,182	1,090	197	313	426	592
Xavier U. Louisiana	321	803	453	765	1,070	678	340	710	987
U. Puerto Rico, Mayaguez	322	1,502	1,235	1,225	1,067	817	703	939	918
Amherst C.	323	580	667	1,419	1,064	239	408	606	608
Southern Illinois U., Edwardsville	324	92	34	208	1,047	22	7	123	271
Jackson State U.	325	1,332	1,270	1,021	1,045	946	958	831	804
California Polytechnic State U., San Luis Obispo	326	703	936	1,227	1,009	380	452	658	609
St. John's U., New York	327	1,117	1,044	837	998	806	790	745	819
U. New Orleans	328	758	626	817	974	336	200	108	148
Missouri U. of Science and Technology	329	596	956	921	970	178	152	143	130
U. South Carolina, Aiken	330	780	510	0	962	780	497	0	870
Keene State C.	331	164	ne	542	956	162	ne	542	955
Philadelphia C. of Osteopathic Medicine	332	660	616	794	945	260	260	346	422
SUNY, Buffalo State	333	486	564	645	929	137	207	188	176
Haverford C.	334	812 i	746 i	582 i	926 i	273	292	133	109
Bowling Green State U.	335	774	813	696	909	97	159	330	376
Wesleyan U.	335	2,142	1,744	1,810	909	966	682	954	382

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Trinity C., Hartford	337	477	387	777	908	412	209	745	861
U. North Florida	338	637	882	741	907	309	390	307	310
Clarkson U.	339	776	894	765	902	561	592	417	442
U. Northern Colorado	340	831	857	999	896	359	334	377	389
C. Charleston	341	1,403	762	1,009	882	1,232	615	661	561
West Virginia State U.	342	1,167	1,474	1,562	872	1,087	1,343	1,446	748
U. of the Sciences Philadelphia	343	868	783	764	859	255	387	502	554
Claflin U.	344	410	242	350	857	410	242	350	854
Gallaudet U.	345	2,079	1,463	818	853	118	102	0	0
Western Illinois U.	346	818	1,068	1,195	852	602	833	969	653
U. Tennessee, Chattanooga	347	465	688	749	843	279	429	564	552
Swarthmore C.	348	691	648	755	841	342	379	468	439
Appalachian State U.	349	1,244	1,125	1,339	840	508	430	387	345
St. Edward's U.	350	750	641	1,010	825	620	550	1,000	800
Southeastern Louisiana U.	351	587	378	689	793	326	213	304	337
Black Hills State U.	352	602	504	818	783	368	418	462	658
Hampton U.	352	674	886	794	783	674	886	794	783
U. Nebraska, Kearney	354	1,080	858	842	775	491	485	469	405
Oregon Institute of Technology	355	0 i	0 i	845 i	765 i	0 i	0	0 i	0
U. Richmond	355	691	823	937	765	482	599	708	648
Louisiana Tech U.	357	682	732	750	753	330	275	180	232
Saint Joseph's U.	358	365	376	434	726	51	103	116	460
Western Washington U.	359	732	502	718	721	500	270	249	243
U. Colorado Colorado Springs	360	466	619	510	716	454	532	441	651
Montana Technological U.	361	670	907	1,006	708	316	483	478	339
California State U., Channel Islands	362	746	756	779	707	0	0	0	0
Indiana State U.	363	522	526	709	690	231	346	450	327
CUNY, Graduate School of Public Health and Health Policy	364	na	0	413	688	na	0	413	688
Winston-Salem State U.	365	648	579	449	684	648	579	449	677

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
California State U., Sacramento	366	684		658		682		682		2		1		17		125	
Saint Michael's C.	367	1,168		1,066		754		671		1,036		1,000		698		622	
Florida Institute of Technology	368	1,564		1,360		1,384		667		1,238		878		965		423	
Grand Valley State U.	368	324		333		542		667		252		216		318		262	
U. Wisconsin-La Crosse	368	962		1,012		703		667		821		752		475		402	
Lewis and Clark C.	371	635		571		584		651		286		459		526		538	
Missouri State U.	371	431		425		442		651		165		117		185		475	
C. New Jersey	373	353		362		ne		649		339		352		ne		328	
Keck Graduate Institute	374	1,537	i	560	i	631	i	648	i	969	i	301	i	337	i	348	i
U. Ana G. Mendez, Gurabo	374	595		311		337		648		419		249		309		446	
Christopher Newport U.	376	256		428		584		644		13		101		132		160	
U. of the Pacific	377	351		787		803		641		251		683		674		326	
Bryn Mawr C.	378	1,105		1,018		781		640		382		298		212		100	
Hope C.	379	428		698		477		629		294		408		407		282	
West Virginia School of Osteopathic Medicine	379	ne		ne		ne		629		ne		ne		ne		52	
Barnard C.	381	378		500		602		625		258		235		309		432	
Long Island U.	382	150		107		25		621		76		5		16		58	
Eastern Kentucky U.	383	628		671		774		609		482		496		473		334	
Spelman C.	384	588		554		478		604		588		554		478		604	
Doane U.	385	ne		652		585		601	i	ne		516		498		514	i
U. Puerto Rico, Cayey	385	9		0		404	i	601		0		0		0		237	
Pepperdine U.	387	296		299		329		597		193		279		303		121	
Hawaii Pacific U.	388	449		637		560		594		357		523		459		570	
Williams C.	389	500		449		610		582	i	365		312		413		396	i
Bucknell U.	390	998	i	1,069		608		578	i	317	i	305		245		235	i
Santa Clara U.	391	204		128		252		576		204		128		252		463	
Franklin and Marshall C.	392	962		709		745		572		688		565		593		502	
Texas Woman's U.	393	757		431		636		562		257		91		325		430	
CUNY, C. Staten Island	394	271		306	i	295		554		130		145	i	177		377	
Mercyhurst U.	395	0	i	ne		532	i	546	i	0	i	ne		215	i	222	i
U. Texas, Tyler	396	192		561		470		541		67		327		261		259	
Rhode Island C.	397	488		437		528		540		462		425		510		504	
California State U., San Bernardino	398	1,089		1,312		1,549		539		369		590		603		89	

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Kenyon C.	399	ne	574	569	534	ne	501	484	520
Towson U.	400	562	401	626	531	326	308	414	361
Harvey Mudd C.	401	279	298	457	520	162	178	323	444
U. of St. Thomas (MN)	402	239	375	471	514	47	174	196	242
William Paterson U.	403	124	545	442	512	15	23	32	81
Middlebury C.	404	600	644	317	506	598	600	296	374
Tougaloo C.	405	365	0	274	503	365	0	274	503
U. Tulsa	406	648	645	785	500	357	349	357	267
Trinity U.	407	469	429	452	499	100	107	95	296
CUNY, New York City C. of Technology	408	ne	609	631	496	ne	458	487	394
U. North Carolina, Asheville	409	213	497	505	493	79	61	75	73
Grinnell C.	410	758	990	363	487	339	221	41	29
CUNY, York C.	411	ne	ne	359	485	ne	ne	340	450
Purdue U., Fort Wayne	412	680	861	665	483	96	164	122	117
CUNY, Medgar Evers C.	413	928	898	876	482	647	619	588	309
Calvin U.	414	354	470	503	481 i	301	426	449	431 i
Colgate U.	415	709	737	726	478	363	293	246	84
Fort Hays State U.	415	ne	ne	370	478	ne	ne	321	388
West Chester U. Pennsylvania	417	462	430	659	459	378	193	414	337
Northern Kentucky U.	418	587	253	450	458	364	130	282	257
Oklahoma State U., Center for Health Sciences	419	198	0	425	452	11	0	3	0
California State U., Fresno	420	1,086	1,517	614	449	1,055	1,265	596	362
California State U., East Bay	421	ne	ne	ne	439	ne	ne	ne	58
Northern Illinois U.	422	423	766	695	436	273	477	390	176
Elizabeth City State U.	423	7	1	ne	435	0	1	ne	428
Pace U.	424	290	372	532	431	148	184	476	386
Northern Michigan U.	425	107	482	364	430	58	89	34	30
Central Washington U.	426	623	580	517	428	287	254	206	179
Whitman C.	427	ne	ne	464	427	ne	ne	338	302
Providence C.	428	572	606	589	422	503	543	469	347
U.S. Military Academy	429	461	520	430	421	461	520	430	295
Bowie State U.	430	164	75	122	414	164	75	122	414

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
U. Louisiana, Monroe	431	438		300		326		410		406		288		305		409	
Fayetteville State U.	432	0		416		328		408		0		416		328		408	
Loyola Marymount U.	433	664		162		488		407		254		22		272		233	
U. Central Arkansas	434	403		378		412		398		244		153		205		242	
Claremont McKenna C.	435	389		364		337		396		389		364		337		396	
U. South Florida, Saint Petersburg	436	418		466		426		386		10		17		5		6	
Prairie View A&M U.	437	212		209		193		379		145		203		185		369	
Eastern Connecticut State U.	438	45		76		300		376		8		17		169		177	
U. Alaska, Southeast	439	241		372		368		374		209		372		368		369	
Salisbury U.	440	274		178		396		366		39		0		4		32	
Mount Holyoke C.	441	822		71		142		359		800		20		87		333	
Southern Connecticut State U.	442	139		210		98		357		54		0		0		17	
U. Puget Sound	442	464		ne		ne		357		303		ne		ne		223	
St. Cloud State U.	444	1,106		1,031		833		349		529		312		386		126	
U. Wisconsin-Oshkosh	445	285	i	301	i	327	i	340	i	224	i	234	i	258	i	269	i
Pomona C.	446	548		282		296		338		168		95		81		180	
Hofstra U.	447	273		334		412		337		235		300		360		308	
Furman U.	448	302		414		254		335		238		297		236		309	
U. Texas of the Permian Basin	449	0		0		ne		328		0		0		ne		328	
U. of the Incarnate Word	450	ne		32		197		327		ne		0		56		14	
Davidson C.	451	496		414		507		322		385		240		272		200	
Biola U.	452	276	i	287	i	308	i	319	i	155	i	163	i	177	i	183	i
Texas Christian U.	453	199		58		215		311		43		0		0		57	
U. Wisconsin-Green Bay	454	218	i	250	i	315	i	306	i	151	i	105	i	151	i	164	i
Colby C.	455	571		651		639		304		476		538		538		243	
U. Central Oklahoma	456	206		314		303		303	i	175		270		231		229	i
SUNY, C. Brockport	457	294		302		263		299		245		278		193		291	
Southern U. and A&M C., Agricultural Research and Extension Center	458	0	i	0		489		298		0	i	0		0		0	

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Macalester C.	459	378	290	343	297	210	79	108	121
DePaul U.	460	370	470	332	296	137	231	267	264
U. Guam	461	144	307	208	291	78	259	196	205
Oberlin C.	462	205	403	949	285	197	265	815	252
New York Institute of Technology	463	271	179	294	283	56	60	294	283
SUNY, Oswego	464	283	383	354	281	194	220	218	190
Western Carolina U.	465	278	296	358	279	88	49	91	66
Occidental C.	466	1,089	116	560	278	406	70	478	199
Connecticut C.	467	951	663	348	275	333	192	95	48
U. Maryland, Eastern Shore	468	106	0	0	269	106	0	0	269
Lipscomb U.	469	ne	ne	ne	264 i	ne	ne	ne	150 i
New Mexico Institute of Mining and Technology	470	56	226	395	260	56	226	387	255
U. Ana G. Mendez, Carolina	471	1,116	630	ne	258	782	391	ne	206
California Lutheran U.	472	ne	ne	206	257	ne	ne	107	144
Gettysburg C.	472	47 i	207	428	257	0	51	60	13
Carleton C.	474	140	339	532	256	11	42	108	82
CUNY, Lehman C.	475	680	384	0	255	554	320	0	136
CUNY, Baruch C.	476	202	324	357	250	148	242	264	117
Northeastern Illinois U.	477	380	399	328	249	380	399	328	249
Tarleton State U.	477	226	50	9	249	0	0	0	15
Liberty U.	479	ne	ne	861	247	ne	ne	385	44
C. Wooster	480	345	375	483	242	150	168	84	76
Mercer U.	481	0	233	239	235	0	0	0	0
Fort Lewis C.	482	ne	ne	289	231	ne	ne	241	187
Fairfield U.	483	673	136	78	230	190	136	78	191
U. Puerto Rico, Humacao	484	ne	233	284	229	ne	233	284	229
Lincoln U., Jefferson City	485	252	253	252	227	252	253	252	227
Rutgers, State U. New Jersey, Camden	486	0	0	25	225	0	0	0	0
California State U., Bakersfield	487	606	426	295	223	447	396	92	70
U. Dayton	488	220	202	168	217	205	167	145	205
U. Wisconsin-Stevens Point	489	179 i	190 i	202 i	214	1 i	1 i	2 i	2
Morehead State U.	490	354	259	682	211	222	183	601	211

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
National Defense U.	491	0	0	0	200	0	0	0	200
Sonoma State U.	492	ne	ne	ne	197	ne	ne	ne	161
Vassar C.	492	300	60 i	34	197	300	60 i	13	16
U. Southern Maine	494	206	276	143	195	95	122	16	60
Eastern Washington U.	495	573	67	66	186	526	0	0	155
California State U., Chico	496	204	229	310	184	204	216	282	170
Pittsburg State U.	497	98	171	243	178	84	141	236	178
Roger Williams U.	498	162	160	246	177	78	143	178	166
Troy U.	499	ne	ne	ne	176	ne	ne	ne	157
New Mexico Highlands U.	500	0	150	ne	171	0	0	ne	115
Willamette U.	501	627	753	278	169	460	368	143	35
Pacific U.	502	431	165	259	160	153	5	15	25
Seattle U.	503	347	288	248	156	92	82	116	86
Texas A&M U.-Commerce	504	1,307	868	265	144	138	66	0	8
Albany State U.	505	622	254	253	143	622	254	253	143
Elon U.	506	113	69	79	140	46	0	0	0
Ithaca C.	507	ne	ne	ne	138	ne	ne	ne	132
Seton Hall U.	507	850	724	810	138	850	724	810	138
U. of Mary Washington	509	ne	12	100	132	ne	7	64	85
Central Connecticut State U.	510	64	ne	112	131	0	ne	31	73
Northwestern State U. Louisiana	510	16	16	50	131	0	0	0	0
SUNY, Geneseo	510	135	194	233	131	37	80	150	58
Fort Valley State U.	513	295	249	185	129	246	208	162	121
Southern U. and A&M C., Baton Rouge	514	154	168	210	128	66	168	183	128
Azusa Pacific U.	515	205	173	259	126	0	0	0	0
Midwestern State U.	515	ne	ne	ne	126	ne	ne	ne	99
Colorado C.	517	225	147	117	121	74	19	12	20
U. Michigan, Dearborn	517	83	204	152	121	37	174	69	112
Morehouse C.	519	113	80	98	120	113	80	98	120
C. of Saint Benedict	520	96	124	122 i	116 i	0	0	0 i	0 i
CUNY, Graduate Center	520	79	59	51	116	46	34	46	87

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
U. South Florida, Sarasota-Manatee	522	98		98		131		115		0		0		0		0	
Norfolk State U.	523	114		53		108		114		114		53		108		114	
U. Wisconsin-Platteville	524	139	i	ne		109	i	111	i	38	i	ne		41	i	41	i
California State U., Dominguez Hills	525	108		341		213		110		85		236		162		81	
Stockton U.	526	ne		138		78		105		ne		138		50		39	
Saint John's U., Collegeville	527	86		112		109	i	104	i	0		0		0	i	0	i
U. Northern Iowa	527	117		57		63		104		83		48		44		35	
St. Bonaventure U.	529	ne		ne		ne		102		ne		ne		ne		102	
La Sierra U.	530	96		64		132		101		23		43		32		4	
Winthrop U.	531	368		384		254		100		281		235		100		64	
U. Wisconsin-River Falls	532	65		120		ne		99		50		95		ne		46	
Coastal Carolina U.	533	206		278		305		98		198		277		268		98	
U. San Diego	534	227		200		106		92		25		22		22		31	
St. Olaf C.	535	306		280		128		90		154		97		0		0	
Lafayette C.	536	8		57		82		87		0		50		80		50	
U. South Alabama	536	230		413		403		87		93		225		211		41	
Monmouth U.	538	ne		ne		56		85		ne		ne		0		0	
Skidmore C.	538	230		225		150		85		170		145		122		69	
CUNY, system office	540	0		43		30		84		0		0		3		84	
Pennsylvania State U., Harrisburg	541	15		33		36		82		2		19		20		76	
Hamilton C.	542	154		251		180		81		0		12		51		26	
U. Wisconsin-Eau Claire	543	46		101		86		80		39		30		35		30	
Hobart and William Smith Colleges	544	136		ne		150		79		100		ne		82		39	
Bradley U.	545	93		103		89		78		55		53		36		20	
Albion C.	546	131		125		98		76		0		0		0		0	
Niagara U.	546	110		89		94		76		0		0		0		0	
Citadel Military C. South Carolina	548	ne		ne		ne		75		ne		ne		ne		49	
U. Arkansas, Pine Bluff	549	170		112		174		74		128		87		136		58	
Youngstown State U.	549	54		6		69		74		0		0		0		0	
Dickinson C.	551	219		ne		12		70		145		ne		2		29	
Florida A&M U.	552	123		172		153		67		56		88		97		61	

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
New Jersey City U.	553	394	805	675	65	394	805	665	57
U. San Francisco	553	281	160	88	65	152	24	19	0
Kean U.	555	ne	ne	ne	63	ne	ne	ne	0
Minnesota State U., Mankato	555	134	138	187	63	52	78	136	0
Saginaw Valley State U.	557	47	63	63	62	0	0	0	0
Austin Peay State U.	558	433	465	705	60	0	0	35	49
Central State U.	559	0	8	46	59	0	8	46	59
U. Minnesota, Morris	559	72	ne	40	59	56	ne	0	0
Stephen F. Austin State U.	561	238	100	75	57	22	0	0	0
Manhattan C.	562	ne	ne	82	56	ne	ne	0	0
Lamar U.	563	55	132	122	55	0	38	0	27
Weber State U.	564	ne	ne	ne	54	ne	ne	ne	28
Kettering U.	565	32	19	26	53	0	19	21	4
CUNY, John Jay C. of Criminal Justice	566	216	489	132	49	203	446	113	39
Dakota State U.	567	0	10	0	48	0	0	0	48
U. Houston-Downtown	568	135	71	37	46	0	0	0	0
Union C., Schenectady	569	62	53	80	45	23	29	14	13
Jacksonville State U.	570	166 i	192	114	44	12 i	11	14	16
U. Houston-Clear Lake	570	233	211	52	44	180	179	9	20
Columbus State U.	572	ne	ne	ne	38	ne	ne	ne	18
U. New Haven	573	68	121	74	35	0	27	24	9
Florida Polytechnic U.	574	ne	ne	50	34	ne	ne	6	29
U. Michigan, Flint	575	32	100	41	32	3	1	0	0
Suffolk U.	576	35 i	ne	ne	29	5 i	ne	ne	29
Benedict C.	577	136	146	158	24	136	101	139	21
Virginia State U.	577	0	0	15	24	0	0	15	24
Wheaton C., Wheaton	579	102	35	5	23	60	0	0	0
Savannah State U.	580	306	543	183	22	306	543	183	22
Pennsylvania State U., Behrend	581	56	50	75	21	27	15	17	15
West Texas A&M U.	581	110	53	27	21	36	0	0	0
Purdue U., Northwest	583	65	53	52	18	2	28	39	5

TABLE 44

Total and federally financed higher education R&D expenditures in the biological and biomedical sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. North Georgia	584	0	0	52	16	0	0	2	16
Texas A&M International U.	585	205	494	64	9	5	398	0	0
Georgia Southern U.	586	1,749	1,202	452	5	147	91	129	5
Andrews U.	587	ne	ne	10	3	ne	ne	0	0
Edward Via C. of Osteopathic Medicine	588	0	0	0	1	0	0	0	1
U. Illinois, Springfield	588	6	3	0	1	0	0	0	0
U. Washington, Tacoma	588	0	0	24	1	0	0	0	0
U. Wisconsin-Superior	588	ne	67	97	1	ne	67	97	1
All other surveyed institutions	-	161,096	160,493	8,418	0	100,485	104,897	5,659	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $32,463 thousand imputed for total and $29,927 thousand reported for federally financed R&D expenditures in biological and biomedical sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	23,991,344	25,778,953	27,293,004	28,026,662	12,688,424	13,395,870	14,194,037	14,733,751
U. California, San Francisco	1	1,329,729	1,531,475	1,526,889	1,579,053	560,981	633,646	631,806	634,237
U. California, Los Angeles	2	727,928	879,537	887,293	955,580	305,734	367,948	393,177	437,643
U. California, San Diego	3	623,952	724,886	754,309	765,869	351,985	362,520	372,590	377,281
Johns Hopkins U.[a]	4	664,206 i	703,372 i	727,074 i	736,373 i	448,573	473,490	478,556	492,957
Yale U.	5	606,423	632,347	691,959	726,089	335,422	333,155	350,340	367,588
Duke U.	6	696,085	718,370	749,965	717,323	317,058	323,754	355,135	353,311
U. North Carolina, Chapel Hill	7	634,348	668,660	680,788	700,352	358,446	374,638	387,808	398,199
U. Washington, Seattle	8	583,219	620,609	655,372	660,692	433,509	465,210	486,924	489,241
U. Pittsburgh, Pittsburgh	9	533,779	583,096	641,144	659,733	346,257	373,157	396,027	400,747
U. Texas M. D. Anderson Cancer Center	10	515,115	584,317	612,732	654,098	75,715	81,643	80,140	90,726
U. Michigan, Ann Arbor	11	548,211	578,171	632,969	622,140	288,532	315,198	339,982	333,024
Stanford U.	12	518,631	553,597	614,159	572,268	309,625	318,415	349,539	323,047
Emory U.	13	410,773	451,672	524,939	535,117	203,654	216,736	236,157	264,862
Columbia U. in the City of New York	14	424,385	485,235	524,495	531,123	295,322	340,645	379,363	391,314
U. Colorado Denver and Anschutz Medical Campus	15	461,099	498,031	515,832	525,897	297,965	316,032	336,438	331,959
U. Minnesota, Twin Cities	16	393,519	410,600	461,261	474,705	207,950	206,667	225,592	231,480
Washington U., Saint Louis	17	375,626	403,124	442,275	465,122	225,836	245,508	264,808	272,506
U. Wisconsin-Madison	18	427,141	440,649	472,274	451,868	171,345	171,827	185,312	177,594
Northwestern U.	19	370,779	406,467	446,421	451,059	223,384	246,040	270,784	287,948
Vanderbilt U. and Vanderbilt U. Medical Center	20	377,186	388,100	408,035	441,313	278,516	282,113	287,597	303,327
U. Southern California	21	334,385	428,328	408,849	427,949	160,048	183,001	198,583	215,128
Ohio State U.	22	373,520	372,386	406,318	422,365	202,499	200,597	211,721	225,112
U. Alabama, Birmingham	23	370,391	388,367	396,340	409,345	222,532	232,933	246,156	242,728
New York U.	24	288,035	361,753	377,195	389,211	182,580	184,518	196,303	203,772
Icahn School of Medicine at Mount Sinai	25	299,743	339,870	363,092	387,114	207,630	229,460	244,978	272,264

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Indiana U., Bloomington	26	264,892	282,830	341,217	384,331	108,121	116,415	154,864	183,742
U. Texas Southwestern Medical Center	27	300,916	294,403	310,308	377,001	125,217	125,321	128,317	154,128
Baylor C. of Medicine	28	285,876	313,453	353,039	374,095	100,911	110,484	137,666	148,425
Cornell U.	29	265,474	309,881	336,554	370,944	99,175	117,383	137,876	161,371
U. Maryland[b]	30	na	na	378,537	366,476	na	na	237,875	215,647
U. Cincinnati	31	294,860	317,083	362,786	363,772	181,627	189,481	191,320	223,432
U. Utah	32	168,137	345,008 i	321,728 i	361,988 i	107,234	182,554	151,742	177,544
U. Florida	33	277,111	324,898	342,498	327,963	122,017	135,856	143,967	142,251
U. Pennsylvania	34	262,444	270,535	301,611	326,566	141,807	147,038	153,088	153,364
Rutgers, State U. New Jersey, New Brunswick	35	294,485	347,582	294,976	319,113	149,545	152,341	122,619	131,115
Uniformed Services U. of the Health Sciences	36	281,653	296,793	405,214	315,313	193,133	210,618	288,742	228,596
Albert Einstein C. of Medicine	37	289,685	297,328	298,824	288,654	188,259	196,457	202,513	204,635
U. Iowa	38	245,202	255,499	260,702	284,636	113,744	114,237	118,355	123,855
Case Western Reserve U.	39	259,950	277,399	284,229	283,260	210,009	227,254	237,106	231,431
Oregon Health and Science U.	40	167,286	175,814	177,687	265,157	116,566	123,389	134,016	184,045
Wake Forest U.	41	177,041	186,333	227,411	232,490	143,340	149,776	161,380	162,023
U. California, Davis	42	198,317	211,803	215,845	229,577	104,708	108,091	113,073	122,802
U. Illinois, Chicago	43	201,986	193,010	207,754	222,385	110,026	107,797	116,209	128,953
Texas A&M U., College Station and Health Science Center	44	96,928	78,732	77,896	220,948	32,046	26,916	29,277	171,384
U. Chicago	45	196,083	192,128	212,930	219,525	129,641	127,596	146,121	163,943
U. Miami	46	214,355	214,208	210,762	218,739	95,677	94,426	97,927	98,788
Boston U.	47	165,583	158,951	187,252	208,709	104,978	103,685	118,893	118,255
U. Rochester	48	183,888	190,887	194,845	205,158	122,773	130,266	129,064	128,290
U. Virginia, Charlottesville	49	196,044	152,594	172,559	189,679	72,196	50,344	48,783	57,711
U. California, Irvine	50	133,046	151,640	162,497	174,686	60,307	64,948	66,776	78,599
Medical C. Wisconsin	51	140,924	148,465	162,969	171,901	63,959	62,164	67,941	75,097
U. Arizona	52	146,236	167,652	161,471	160,542	56,116	68,196	61,132	58,241
Wayne State U.	53	139,847	148,674	153,084	154,653	68,776	71,133	74,502	74,025
U. Kansas	54	120,687	135,493	142,295	154,245	46,938	54,878	59,800	69,398
SUNY, U. Buffalo	55	167,111	165,515	164,551	150,541	62,279	60,158	58,617	59,728
Georgetown U.	56	125,558	127,918	136,787	138,679	67,033	64,369	64,256	66,199

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Virginia Commonwealth U.	57	110,178	124,616	121,490	137,007	60,868	56,725	51,872	57,194
George Washington U.	58	113,728	117,455	121,699	126,901	81,599	81,460	78,924	84,188
Harvard U.	59	121,625	136,254	137,745	122,619	64,591	64,248	62,263	54,439
U. Oklahoma, Norman and Health Science Center	60	106,024	98,313	107,128	119,319	43,840	37,111	41,090	43,535
U. Texas Health Science Center, Houston	61	104,716	103,889	114,095	118,123	46,253	45,982	51,093	53,123
U. New Mexico	62	110,134	123,881	113,308	115,028	74,005	77,576	68,059	68,385
U. Texas Health Science Center, San Antonio	63	96,806	97,257	104,703	112,594	47,774	47,567	54,241	53,745
U. Arkansas for Medical Sciences	64	86,076	92,515	99,586	105,955	26,457	25,404	30,247	31,804
U. Nebraska, Medical Center	65	77,953	89,480	90,837	96,786	33,850	32,925	31,791	34,622
Thomas Jefferson U.	66	85,314	84,064	96,914	96,265	27,531	28,675	31,857	32,350
U. Massachusetts, Medical School	67	109,214	106,512	92,702	94,555	75,092	74,526	62,020	61,778
Temple U.	68	91,376	85,549	95,903	93,790	58,345	56,284	63,267	58,687
U. Louisville	69	92,566	87,100	82,529	91,134	27,709	30,092	29,886	28,362
Pennsylvania State U., University Park and Hershey Medical Center	70	92,705	88,833	84,968	90,967	49,066	45,299	46,064	49,889
Medical U. South Carolina	71	88,994	92,240	99,495	86,364	38,402	38,607	43,635	44,041
Purdue U., West Lafayette	72	69,168	64,066	73,660	85,839	23,026	24,261	24,555	29,679
Dartmouth C. and Dartmouth Hitchcock Medical Center	73	79,919	83,026	99,814	83,046	46,912	48,440	60,631	43,926
U. South Carolina, Columbia	74	60,213	57,608	52,099	80,412	36,612	36,380	39,967	43,207
Rush U.	75	56,880	72,261	75,399	78,672	35,518	47,961	49,170	51,186
U. Missouri, Columbia	76	52,390	51,464	62,918	78,021	23,289	25,048	28,328	35,673
U. Kentucky	77	70,791	64,652	73,619	77,295	39,766	32,406	40,585	47,572
U. Tennessee, Health Science Center	78	56,195	61,918	74,555	72,349	26,092	26,501	27,654	28,260
U. South Florida, Tampa	79	213,888	84,743	83,200	72,093	73,155	19,593	20,003	24,754
U. Mississippi	80	56,449	55,582	60,209	67,047	31,401	29,177	29,781	46,807

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Connecticut	81	77,275	72,241	76,662	64,335	44,752	40,200	43,145	38,304
U. Vermont	82	43,594	47,413	48,324	64,224	27,087	30,298	31,802	33,364
U. Texas, Austin	83	29,454	42,958	56,232	62,010	19,780	21,815	29,182	28,826
Augusta U.	84	58,135	60,286	56,610	60,177	24,469	23,586	22,378	25,747
Michigan State U.	85	53,993	59,646	65,910	60,154	23,512	26,398	32,480	27,534
SUNY, Stony Brook U.	86	59,809	54,660	57,903	59,949	27,566	24,994	25,783	26,694
West Virginia U.	87	65,835	62,055	60,670	58,047	15,747	16,777	20,341	18,908
U. California, Berkeley	88	71,943	65,785	61,002	55,230	35,299	34,645	33,036	25,243
Washington State U.	89	34,636	40,812	47,568	49,070	20,494	24,820	34,114	32,030
U. Hawaii, Manoa	90	56,984	54,265	52,177	47,531	39,746	37,714	36,629	32,477
Drexel U.	91	35,915	45,559	49,628	47,466	14,080	21,707	26,328	25,113
Virginia Polytechnic Institute and State U.	92	45,406	48,797	49,883	47,236	14,857	16,132	19,397	19,730
U. Texas Medical Branch	93	50,384	49,895	43,303	42,087	30,375	30,434	27,545	27,779
Brown U.	94	41,288	49,630	45,463	41,744	30,474	37,965	34,347	31,743
Tulane U.	95	33,940	37,352	36,399	41,445	11,168	15,257	14,594	16,346
U. California, Office of the President	96	24,228	36,393	50,092	40,585	178	184	202	123
Arizona State U.	97	20,346	26,836	31,611	39,268	7,619	10,933	15,503	15,960
Florida State U.	98	21,095	25,392	32,890	37,353	7,564	11,696	17,293	19,862
U. Puerto Rico, Medical Sciences Campus	99	42,423	41,216	44,985	37,081	29,869	30,597	34,541	26,897
U. Georgia	100	35,374	35,091	50,860	32,872	9,730	10,661	10,985	12,548
SUNY, U. Albany	101	46,039	60,653	68,363	32,478	35,317	46,069	51,657	27,935
Tufts U.	102	25,840	22,399	19,295	31,949	18,340	12,812	14,964	25,561
Saint Louis U.	103	25,087	27,466	29,373	31,213	11,624	12,719	16,774	15,722
East Carolina U.	104	12,871	20,478	32,861	30,285	4,491	5,831	10,963	11,137
Morehouse School of Medicine	105	35,454	33,215	31,289	29,813	28,792	24,326	22,461	22,500
U. Texas, Dallas	106	25,367	25,181	31,036	29,609	6,221	8,370	11,546	13,568
U. Delaware	107	27,093	24,182	26,922	28,705	19,392	17,192	19,058	21,603
U. North Texas, Health Science Center	108	28,971	29,675	28,110	28,703	17,332	19,949	18,111	18,800
SUNY, Upstate Medical U.	109	20,749	21,703	22,363	26,810	11,295	11,924	9,786	13,081

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Montana, Missoula	110	19,631	20,846	24,465	25,707	14,366	18,053	19,683	21,652
Colorado State U., Fort Collins	111	54,686	46,652	37,787	24,849	35,296	30,361	24,560	19,151
Louisiana State U., Health Sciences Center, New Orleans	112	21,621	19,849	20,974	23,192	13,435	11,845	14,317	14,392
Texas Tech U., Health Sciences Center	113	22,198	21,383	22,752	21,574	4,148	3,369	3,596	3,500
U. Houston	114	19,533	22,924	20,004	21,435	9,610	9,597	10,244	10,906
U. Nevada, Las Vegas	115	14,550	12,751	20,056	21,019	7,520	6,542	6,120	5,767
U. Toledo	116	16,761	17,191	20,923	20,743	6,380	8,210	9,880	9,989
Massachusetts Institute of Technology	117	24,566	22,812	19,499	20,529	10,410	11,679	14,181	14,516
Georgia Institute of Technology	118	0	4,671	4,846	20,316	0	0	0	13,779
U. Texas Rio Grande Valley	119	14,223	11,955	17,789	19,143	5,114	4,328	4,808	3,852
U. Nevada, Reno	120	5,873	17,682	18,515	19,029	2,083	10,176	9,170	8,277
U. South Alabama	121	11,104	10,269	13,406	18,893	7,028	5,861	8,150	11,871
Loyola U., Chicago	122	19,881	20,136	17,674	18,529	11,101	10,130	9,742	9,898
U. Louisiana, Lafayette	123	19,103	0	51,140	18,497	18	0	12,290	8,299
Howard U.	124	20,483	19,482	17,872	18,156	16,141	15,474	13,134	12,922
New Jersey Institute of Technology	125	13,350	25,059	24,859	17,662	13,350	22,070	18,422	13,727
U. Central Florida	126	7,824	10,783	17,034	17,629	1,624	2,857	2,848	3,418
U. Nebraska, Lincoln	127	20,948	19,422	18,492	16,883	10,927	8,627	7,719	5,797
Southern Illinois U., Carbondale	128	19,149	20,361	16,778	16,628	4,550	4,314	4,437	3,925
U. New Hampshire	129	12,606	14,602	14,712	15,276	8,597	9,030	9,133	9,845
Iowa State U.	130	19,652	23,102	26,137	15,103	5,608	5,923	7,414	5,715
Loma Linda U.	131	12,954	13,649 i	14,497 i	14,865 i	7,269	7,555 i	8,090 i	8,352 i
Rockefeller U.	132	14,739	14,412	14,318	14,643	6,539	6,150	5,819	4,473
U. Missouri, Kansas City	133	8,783	7,796	11,919	14,403	3,702	3,513	7,586	9,111
U. North Dakota	134	12,090	11,708	12,059	14,048	4,687	5,025	5,940	7,807

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Florida International U.	135	15,433	12,635	16,019	13,961	4,935	3,010	3,190	2,603
Louisiana State U., Health Sciences Center, Shreveport	136	14,001	13,849	14,390	13,911	1,572	1,529	2,267	1,658
Georgia State U.	137	23,121	22,235	11,424	13,803	10,578	11,124	9,780	10,882
Charles R. Drew U. of Medicine and Science	138	15,652	11,490	13,739	13,682	14,461	10,198	10,427	9,863
Ponce Health Sciences U.	139	8,664	7,857	11,390	13,566	7,108	6,386	8,339	11,228
Indiana U.-Purdue U., Indianapolis	140	11,662	13,353	14,273	13,557	3,794	4,585	5,579	5,576
Nova Southeastern U.	141	12,404	13,414	14,236	13,298	3,649	3,540	4,725	4,572
U. California, Riverside	142	7,441	8,756	10,797	12,788	3,996	5,317	6,568	9,783
San Diego State U.	143	13,651	12,874	15,226	12,357	9,419	8,935	10,733	8,423
Marshall U.	144	9,088	11,238	10,844	12,186	5,159	5,808	6,218	8,118
Auburn U., Auburn	145	20,321	26,623	28,160	10,995	890	2,159	1,615	1,657
Eastern Virginia Medical School	146	22,181	23,540	18,318	10,902	16,623	17,085	13,393	8,927
Northeastern U.	147	6,450	9,442	10,429	10,384	1,996	4,328	4,454	4,591
CUNY, Graduate School of Public Health and Health Policy	148	na	7,290	7,388	10,057	na	3,757	3,439	6,602
U. Massachusetts, Amherst	149	20,827	19,867	19,940	10,047	11,467	10,708	12,576	6,464
Montana State U., Bozeman	150	11,799	10,054	11,971	10,030	7,032	6,476	8,195	7,076
CUNY, Queens C.	151	0	0	0	9,978	0	0	0	8,321
U. Tennessee, Knoxville[c]	152	3,307	6,020	6,503	9,977	2,015	2,387	3,123	4,173
U. Texas, Arlington	153	3,035	5,317	9,698	9,511	1,209	1,306	3,508	5,042
Creighton U.	154	10,322 i	8,887 i	10,406 i	8,797 i	3,427 i	2,429 i	3,497 i	3,209 i
North Dakota State U.	155	14,616	15,894	17,936	8,713	4,869	5,834	6,703	5,142
Oklahoma State U., Stillwater	156	5,529	10,329	9,576	8,614	1,242	2,222	1,248	1,106
Florida A&M U.	157	8,888	8,599	7,880	8,427	7,491	7,300	6,874	7,301

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
SUNY, Binghamton U.	158	6,098	8,957	7,085	8,035	566	1,222	1,490	1,319
Texas Tech U., Health Sciences Center, El Paso	159	11,549	8,616	8,856	8,014	1,375	1,411	1,397	1,189
Florida Atlantic U.	160	8,322	7,705	7,432	7,865	2,831	2,597	3,572	3,380
Rowan U.	161	4,609	4,559	6,652	7,836	2,313	2,919	2,909	3,446
New York Medical C.	162	9,141 i	4,188 i	11,126 i	7,585	4,630 i	4,188 i	6,143 i	3,010
Edward Via C. of Osteopathic Medicine	163	8,119	7,601	7,225	7,474	94	195	749	565
Clemson U.	164	2,307	2,625	5,822	7,465	1,256	1,198	1,387	1,847
Oregon State U.	165	6,084	6,803	8,154	7,447	4,466	4,836	5,839	5,837
George Mason U.	166	5,273	7,286	6,467	7,187	2,150	4,024	2,767	3,326
Oklahoma State U., Center for Health Sciences	167	993	2,497	4,390	7,164	718	959	848	2,469
Ohio U.	168	11,504 i	8,579 i	7,681	7,158	2,544	1,955	2,215	2,501
Northeast Ohio Medical U.	169	11,704	10,236	9,108	6,717	5,152	3,959	3,673	3,274
U. Texas, El Paso	170	6,303	6,979	7,504	6,503	938	1,412	1,958	2,007
Albany Medical C.	171	6,063	6,819	6,792	6,360	240	331	607	677
Duquesne U.	172	8,129	6,461	5,950	6,266	3,197	2,534	2,089	2,181
U. Wisconsin-Milwaukee	173	953	5,547	5,839	6,129	953	1,964	2,671	3,092
Long Island U.	174	1,349	1,541	4,536	5,905	1,025	1,333	1,381	1,103
Wright State U.	175	8,029	7,204	8,004	5,732	3,679	4,265	4,070	3,109
Miami U.	176	804	2,802	4,422	5,586	97	214	365	1,085
U. Missouri, Saint Louis	177	1,713	2,069	4,746	5,458	996	1,528	2,357	2,591
U. Alabama, Tuscaloosa	178	2,262	3,507	4,869	5,383	623	877	1,589	2,364
U. Colorado Boulder	179	5,777	6,593	5,714	5,377	4,567	4,728	3,747	3,939
Mercer U.	180	3,651	5,112	5,294	5,307	1,126	1,181	1,233	1,457
Texas Tech U.	181	4,946	5,879	6,365	5,204	311	445	597	570
U. Massachusetts, Lowell	182	19	3,551	2,942	5,198	0	1,783	945	1,417
U. Memphis	183	4,852	5,681	5,463	5,192	1,395	1,279	1,053	1,139
Northern Arizona U.	184	5,578	2,036	2,807	5,180	3,003	497	1,178	3,702
U. of Health Sciences and Pharmacy in St. Louis	185	ne	ne	ne	4,835	ne	ne	ne	3,767

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Old Dominion U.	186	7,047	4,683	4,708	4,585	4,150	3,397	2,081	2,186
Marquette U.	187	4,000	3,223	4,461	4,570	873	840	1,477	1,771
Central Michigan U.	188	3,113	3,219	2,910	4,390	751	1,421	1,046	844
CUNY, City C.	189	3,756	4,277	4,355	4,387	2,108	2,506	2,429	2,024
Roseman U. of Health Sciences	190	4,167	3,973	4,176 i	4,380	0	18	37 i	56
East Tennessee State U.	191	4,013	4,282 i	3,405 i	4,145 i	1,417	2,092	1,456	2,564
U. Central del Caribe	192	5,634	4,111	3,953	3,931	4,866	2,937	2,705	2,743
Midwestern U.	193	3,625	3,778	3,950	3,907	276	262	491	455
Southern Illinois U., Edwardsville	194	2,363	3,088	1,066	3,799	769	741	1,048	961
SUNY, C. of Optometry	195	3,304	3,120	2,968	3,477	2,073	1,944	1,823	1,688
U. Nebraska, Omaha	196	3,970	3,549	2,599	3,445	3,357	2,921	1,989	2,658
U. Massachusetts, Boston	197	8,060	4,395	3,766	3,320	2,282	1,679	1,403	1,591
U. North Carolina, Greensboro	198	2,728	3,249	3,993	3,230	2,229	2,174	2,424	2,032
U. Arkansas, Fayetteville	199	11,752	13,844	11,026	3,213	7,266	8,588	5,617	821
Pacific U.	200	3,316	2,641	4,463	3,202	1,352	1,252	2,338	1,572
Alabama A&M U.	201	7,176 i	5,785 i	4,390 i	2,991 i	5,136 i	3,974 i	2,810 i	1,916 i
California Polytechnic State U., San Luis Obispo	202	3,029	2,741	2,891	2,899	2,266	2,035	2,207	1,836
Xavier U. Louisiana	203	3,011	3,533	2,490	2,859	1,727	2,266	1,180	1,384
U. Illinois, Urbana-Champaign	204	20,194	19,229	25,462	2,845	6,345	5,617	8,907	722
Cleveland State U.	205	4,156	8,610	6,578	2,797	3,200	6,628	3,819	433
Syracuse U.	206	3,738	3,174	3,253	2,785	848	851	841	647
Chapman U.	207	2,913	2,384	2,578	2,761	983	1,240	1,587	1,810
California State U., Long Beach	208	1,595	2,524	2,873	2,704	960	1,941	2,262	1,784
South Dakota State U.	209	5,295	4,642	4,896	2,684	2,859	2,252	1,947	1,596
U. Oklahoma, Tulsa	210	1,621	2,383	2,325	2,633	344	864	496	493
Utah State U.	211	413	1,173	1,737	2,526	292	864	1,398	1,877
Yeshiva U.	212	3,258	3,302	2,420	2,477	816	683	380	486

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
New York Institute of Technology	213	1,953	2,381	4,185	2,474	460	624	1,900	698
Philadelphia C. of Osteopathic Medicine	214	2,309	2,443	2,368	2,415	0	0	0	0
U. Guam	215	2,238	1,928	2,145	2,408	1,976	1,581	1,837	2,034
U. Rhode Island	216	4,076	2,714	2,944	2,397	3,444	1,648	1,847	2,339
U. Wyoming	217	20,121	17,664	4,206 i	2,320	11,379	7,804	2,900	2,026
U. of the Sciences Philadelphia	218	2,298	2,133	2,332	2,304	544	434	318	254
U. Southern Mississippi	219	380	2,101	2,771	2,300	4	112	627	608
Baylor U.	220	2,251	2,761	2,127	2,267	444	681	1,098	1,255
Texas State U.	221	1,065	1,106	1,957	2,257	214	64	457	354
Portland State U.	222	6,092	6,510	9,112	2,224	4,999	5,911	7,816	2,097
U. New England	223	2,591	2,038	1,870	2,080	1,862	1,402	1,344	1,428
Framingham State U.	224	1,823	48	ne	2,060	0	0	ne	0
Brandeis U.	225	0 i	0	0	2,047	0	0	0	1,318
U. Texas, San Antonio	226	1,030	1,658	1,483	2,014	358	734	826	808
Salisbury U.	227	1,220	1,634	1,607	1,995	461	77	0	0
Kent State U.	228	1,330	1,559	2,281	1,965	10	51	110	424
Morgan State U.	229	0	93	6	1,931	0	0	0	1,764
U. North Carolina, Charlotte	230	1,549	2,018	2,424	1,904	668	430	728	563
Azusa Pacific U.	231	1,941	2,512	736	1,876	127	111	49	116
Eastern Michigan U.	232	311	292	1,165	1,872	0	0	799	1,413
Northern Illinois U.	233	556	2,786	3,604	1,854	524	406	211	200
U. California, Merced	234	1,542	1,845	2,323	1,770	392	512	634	539
U. South Dakota	235	1,806	1,997	1,631	1,743	96	368	328	504
Mississippi State U.	236	2,341	1,376	1,535	1,738	757	126	135	206
Winston-Salem State U.	237	218	305	201	1,716	218	305	201	1,366
Rosalind Franklin U. of Medicine and Science	238	1,542	2,419	1,386	1,691	415	577	630	770
Texas Woman's U.	239	1,693	1,807	1,435	1,669	63	0	229	347
U. Louisiana, Monroe	240	1,414	1,483	1,435	1,665	1,176	1,209	1,088	1,379
Oakland U.	241	1,611	1,374	1,805	1,603	771	567	215	69

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
MGH Institute of Health Professions	242	1,076		1,745		1,957		1,587		1,076		1,745		1,957		1,587	
Langston U.	243	168	i	211	i	255		1,578		0	i	0	i	0		1,578	
Boston C.	244	844		1,175		1,202		1,576		554		858		879		1,062	
Idaho State U.	245	1,791		1,697		1,237		1,477		1,211		899		352		283	
National U. of Natural Medicine	246	921		ne		1,245		1,428		427		ne		760		912	
Michigan Technological U.	247	719		1,113		1,460		1,390		361		566		629		399	
Marshall B. Ketchum U.	248	1,512	i	1,451	i	1,430	i	1,357	i	368	i	354	i	336	i	323	i
U. North Texas, Denton	249	426		875		1,866		1,354		0		0		0		48	
Boise State U.	250	1,192		881		955		1,343		759		688		670		867	
U. Nebraska, central administration	251	ne		2,145		3,259		1,333		ne		2,145		3,068		1,333	
St. John's U., New York	252	0		1,013		926		1,326		0		533		539		556	
Villanova U.	253	0		455		601		1,305		0		0		0		25	
Tougaloo C.	254	1,755		2,012		1,170		1,238		1,755		2,012		1,170		1,238	
Grand Valley State U.	255	79		803		741		1,216		0		104		527		673	
Montclair State U.	256	1,124		1,249		852		1,206		0		174		133		300	
Georgia Southern U.	257	2,880		1,670		1,507		1,173		1,736		966		774		570	
Ball State U.	258	1,349		1,287		1,232		1,171		592		500		454		598	
U. of the Virgin Islands	259	1,671		287		143		1,157		1,671		287		143		1,157	
New England C. of Optometry	260	ne		1,026		1,223		1,150		ne		837		928		785	
Saginaw Valley State U.	261	421		883		1,296		1,145		406		868		1,278		1,083	
Western Michigan U. and Homer Stryker M.D. School of Medicine	262	2,127		1,368		929		1,136		802		287		100		276	
U. Alabama, Huntsville	263	98		108		887		1,122		0		0		6		39	
Jackson State U.	264	2,217		870		881		1,084		2,190		866		855		1,044	
Fayetteville State U.	265	326		368		368		1,075		326		368		368		0	
Albany C. of Pharmacy and Health Sciences	266	168		1,434		348		1,033		58		400		214		827	

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Illinois Institute of Technology	267	866	1,896	1,696	1,023	337	947	847	487
U. Oregon	268	1,974	821	115	1,004	938	629	107	4
Illinois State U.	269	70	268	646	991	22	20	343	684
Kennesaw State U.	270	56	748	1,346	965	0	6	50	315
Hampton U.	271	1,139	404	983	962	1,139	404	983	962
Brigham Young U., Provo	272	515	837	1,354	946	0	156	482	392
U. Maryland, Baltimore County	273	0	0	2,446	934	0	0	1,400	142
Keck Graduate Institute	274	322 i	807 i	906 i	930 i	0 i	404 i	444 i	458 i
Louisiana State U., Baton Rouge	275	21,960	23,984	26,509	928	6,841	7,566	8,877	527
Purdue U., Northwest	276	728	722	563	920	104	97	71	131
Southern Connecticut State U.	277	98	328	672	907	13	147	144	102
Northeastern Illinois U.	278	0	944	997	873	0	944	997	873
Skidmore C.	279	979	1,264	1,071	852	807	1,072	948	730
U. Hawaii, Hilo	280	1,749	1,476	746	851	1,222	1,029	591	631
Carnegie Mellon U.	281	1,056	1,082	1,191	824	548	759	885	493
SUNY, Downstate Medical Center	282	1,361	185	593	815	1,361	185	170	283
Mercyhurst U.	283	0 i	ne	783 i	804 i	0 i	ne	283 i	292 i
Oregon Institute of Technology	284	0 i	0 i	859 i	777 i	0 i	0	0 i	0
Western Carolina U.	285	158	168	621	774	58	137	493	621
Kansas State U.	286	21,208	19,289	17,881	752	10,311	9,103	9,584	752
CUNY, C. Staten Island	287	816	857 i	628	723	349	0 i	0	0
U. North Carolina, Asheville	288	386	146	515	718	356	0	486	667
California State U., Fullerton	289	582	574	553	707	467	451	336	335
Western Kentucky U.	290	623	823	1,134	686	212	77	170	0
West Virginia School of Osteopathic Medicine	291	ne	ne	ne	669	ne	ne	ne	362
Catholic U. of America	292	424	889	735	667	270	663	541	432

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southern U. and A&M C., Agricultural Research and Extension Center	293	0 i	0	418	662	0 i	0	0	0
CUNY, Brooklyn C.	294	373	255	636 i	660	326	245	534 i	556
William Paterson U.	295	191	381	598	650	32	0	0	0
U. Wisconsin-Green Bay	296	124 i	549 i	684 i	649 i	69 i	189 i	262 i	284 i
U. Wisconsin-Oshkosh	296	550 i	583 i	626 i	649 i	399 i	417 i	449 i	468 i
Florida Gulf Coast U.	298	20	20	66	632	17	20	51	594
U. Nebraska, Kearney	298	150	130	276	632	22	19	47	327
James Madison U.	300	132	133	295	631	0	0	0	0
California State U., East Bay	301	ne	ne	ne	629	ne	ne	ne	154
West Chester U. Pennsylvania	302	736	888	939	613	84	116	126	73
California State U., Fresno	303	288	335	104	572	125	79	9	10
Des Moines U.	304	117	81	29	567	50	41	10	0
U. Massachusetts, central office	305	359	381	329	545	267	246	198	403
Northern Kentucky U.	306	0	0	156	532	0	0	138	295
U. of the Incarnate Word	307	ne	160	520	531	ne	160	520	531
U. North Carolina, Wilmington	308	78	66	159	481	3	27	108	151
U. North Florida	308	500	465	632	481	0	0	0	0
Midwestern State U.	310	ne	ne	ne	476	ne	ne	ne	381
SUNY, C. Plattsburgh	311	0	735	306	465	0	681	281	429
Texas Christian U.	312	2,470	1,661	1,527	464	1,484	1,431	844	124
Biola U.	313	396 i	411 i	440 i	452 i	212 i	218 i	233 i	240 i
Louisiana Tech U.	314	432	357	462	449	47	0	67	37
New Mexico State U.	314	418	626	628	449	292	543	536	397
U. Texas, Tyler	316	239	212	693	440	48	149	343	272
U. Alaska, Fairbanks	317	5,005	6,324	2,751	431	4,680	5,129	2,517	431
U. Puerto Rico, Cayey	318	0	0	353 i	426	0	0	0	327

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Appalachian State U.	319	9	19	45	409	0	0	0	64
CUNY, Hunter C.	320	104	148	242	407	104	142	238	253
Winthrop U.	321	0	2	259	401	0	0	259	401
U. Central Arkansas	322	570	539	270	386	173	132	58	115
U. Maine	323	62	44	417	385	0	0	0	0
Gallaudet U.	324	360	774	409	384	319	699	388	383
Lipscomb U.	325	ne	ne	ne	379 i	ne	ne	ne	203 i
Pace U.	326	479	510	366	378	20	9	1	19
North Carolina Central U.	327	747	0	1,087	360	710	0	943	302
Tarleton State U.	328	104	3	115	350	0	0	0	0
U. of the Pacific	329	423	457	381	341	389	393	278	328
Rutgers, State U. New Jersey, Newark	330	0	80	0	338	0	0	0	0
Dine C.	331	ne	647	734	328	ne	647	734	328
Pennsylvania State U., Harrisburg	332	0	12	62	327	0	0	0	303
California State U., Sacramento	333	302	357	356	325	12	14	9	0
California State U., San Marcos	334	28	48	372	324	28	47	372	254
Western U. of Health Sciences	335	1,403	1,034	446	323	154	537	41	14
U. Detroit Mercy	336	189	36	67	318	3	33	46	18
U. Northern Colorado	337	957	937	634	311	585	490	179	128
Bowling Green State U.	338	392	236	109	304	92	124	67	122
Ithaca C.	339	ne	ne	ne	303	ne	ne	ne	276
U. Washington, Bothell	340	0	48	251	297	0	48	203	297
Towson U.	341	190	201	212	295	0	0	13	13
Delaware State U.	342	30	197	265	275 i	27	7	170	177 i
Rhode Island C.	343	61	58	64	268	60	41	45	0
U. Michigan, Dearborn	344	38	141	143	261	8	74	103	171
U. Maryland, Eastern Shore	345	18	7	106	259	0	7	5	259
California State U., Los Angeles	346	148	400	522 i	257	138	400	490	235
Merrimack C.	347	ne	480	ne	253	ne	146	ne	168
Humboldt State U.	348	160	214	396	246	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Johnson C. Smith U.	348	352	568	230	246	352	368	230	246
U. Notre Dame	350	202	65	139	231	0	0	0	0
Dillard U.	351	4,246	4,403	506	224	3,686	4,134	506	2
Texas A&M International U.	352	1,991	2,578	3,439	220	1,461	1,339	1,698	123
U. Dayton	353	229	346	413	216	108	207	319	172
U. South Florida, Saint Petersburg	354	77	495	308	206	0	0	0	0
Naval Postgraduate School	355	0	0	55	200	0	0	55	200
Northern Michigan U.	355	116	129	320	200	0	0	150	0
U. San Francisco	357	86	280	321	195	0	0	0	0
U. Tennessee, Chattanooga	358	67	88	104	193	0	0	0	0
South Carolina State U.	359	0	0 i	185	192 i	0	0 i	185	192 i
San Francisco State U.	360	83	63	184	191 i	41	0	94	98 i
U. Michigan, Flint	361	227	126	172	190	42	7	9	118
U. Akron	362	436	10	13	183	146	0	0	143
Virginia State U.	363	22	0	9	179	22	0	9	179
U. Tulsa	364	0	17	135	178	0	0	0	28
Northwestern State U. Louisiana	365	93	186	211	176	0	4	34	1
Wheaton C., Wheaton	366	22	72	211	161	0	27	137	142
Savannah State U.	367	144	38	92	152	144	38	92	152
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	368	312	123	145	150	44	24	43	45
Southeastern Louisiana U.	369	516	396	138	148	442	359	118	136
C. Charleston	370	29	177	225	146	0	0	25	0
Indiana U. Pennsylvania	371	37	113	129	144	0	0	0	0
Colorado School of Mines	372	67	68	88	132	8	30	88	125
U. Alaska, Anchorage	373	1,472	1,757	1,268	129	1,384	1,523	1,116	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Smith C.	374	6	98	17	126	0	0	0	14
U. Idaho	375	50	88	169	121	0	58	87	93
U. San Diego	375	145	187	219	121	15	46	22	34
Kean U.	377	ne	ne	ne	120	ne	ne	ne	0
Fisk U.	378	35	0	0	113	35	0	0	113
Middle Tennessee State U.	379	101	131	34	112	65	79	0	0
Middlebury C.	380	0	0	0	109	0	0	0	109
U. West Florida	380	362	179	88	109	0	7	0	28
Alcorn State U.	382	844	186	86	108	670	186	81	107
U. Hartford	383	117	10	0	101	97	10	0	101
Clarkson U.	384	508	507	398	97	443	368	219	54
Tennessee Technological U.	385	58	17	0	96	41	13	0	0
Stephen F. Austin State U.	386	0	99	97	92	0	4	1	0
St. Olaf C.	387	99	67	75	81	27	0	0	0
Eastern Kentucky U.	388	8	79	105	80	0	2	74	44
DePaul U.	389	15	29	27	79	8	8	1	0
St. Cloud State U.	390	85	4	36	78	0	0	0	0
U. Massachusetts, Dartmouth	391	143	123	106	77	0	0	0	0
U. Southern Maine	392	19	1	0	74	0	0	0	22
Furman U.	393	99	88	52	72	91	79	52	39
Pittsburg State U.	394	3	14	50	69	0	14	50	67
U. North Georgia	395	0	118	128	67	0	0	74	67
Tennessee State U.	396	29	38	167	65	2	36	43	44
U. Central Oklahoma	397	56	0	64	63 i	56	0	60	59 i
U. Colorado Colorado Springs	398	0	15	18	62	0	15	0	0
Indiana State U.	399	64	195	133	55	19	61	42	12
Dickinson C.	400	0	ne	84	53	0	ne	84	0
California State U., Monterey Bay	401	155	278	262	49	122	205	196	0
Fairfield U.	401	702	0	68	49	357	0	0	0
Prairie View A&M U.	403	37	3	0	48	30	0	0	48
Hofstra U.	404	79	96	26	47	47	8	0	0
Texas A&M U.-Commerce	404	0	17	87	47	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. South Florida, Sarasota-Manatee	404	64	35	55	47	0	0	0	0
California Institute of Technology	407	2,966	4,274	2,815	46	0	0	0	46
U. Wisconsin-Eau Claire	407	12	37	49	46	0	0	0	0
Elon U.	409	204	307	268	45	0	0	0	16
Sonoma State U.	409	ne	ne	ne	45	ne	ne	ne	17
Stockton U.	411	ne	20	0	44	ne	0	0	0
California Lutheran U.	412	ne	ne	104	39	ne	ne	0	0
Lamar U.	413	233	249	563	36	0	15	440	0
Saint Joseph's U.	414	45	37	43	35	0	0	0	0
U. Arkansas, Little Rock	414	276	93	80	35	0	66	53	35
Citadel Military C. South Carolina	416	ne	ne	ne	34	ne	ne	ne	0
Arkansas State U., Jonesboro	417	11	45	28	32	0	0	0	0
CUNY, John Jay C. of Criminal Justice	418	0	346	81	28	0	54	2	2
U. Puerto Rico, Rio Piedras	419	0	4	71	27	0	2	71	27
Youngstown State U.	419	40	28	31	27	0	0	0	0
Liberty U.	421	ne	ne	6	26	ne	ne	0	0
U. Wisconsin-Stevens Point	422	14 i	18 i	20 i	23	11 i	14 i	16 i	19
California State U., Bakersfield	423	10	4	21	22	0	0	0	0
Texas A&M U.-Corpus Christi	423	213	38	33	22	0	0	0	0
U. Wisconsin-La Crosse	423	90	8	8	22	0	0	0	0
California State U., Dominguez Hills	426	10	24	24	21	0	0	0	0
U. Ana G. Mendez, Gurabo	426	56	101	63	21	0	0	0	0
Wichita State U.	426	17	6	57	21	6	3	0	9
Spelman C.	429	171	130	58	20	171	130	58	20
U. Puget Sound	429	22	ne	ne	20	0	ne	ne	0
Pepperdine U.	431	57	11	11	18	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Sam Houston State U.	431	9	269	14	18	0	0	0	0
Minnesota State U., Mankato	433	0	6	5	17	0	0	0	0
Calvin U.	434	26	1	16	15 i	0	0	0	0 i
C. of Saint Benedict	435	50	15	15 i	14 i	0	0	0 i	0 i
La Salle U.	435	ne	ne	ne	14	ne	ne	ne	14
U. Alaska, Southeast	437	55	176	84	13	55	176	84	13
New School	438	0	0	0	12	0	0	0	12
Saint John's U., Collegeville	438	45	13	13 i	12 i	0	0	0 i	0 i
SUNY, C. Brockport	438	21	47	26	12	11	26	0	0
Willamette U.	438	7	7	33	12	0	0	0	0
Fort Lewis C.	442	ne	ne	0	11	ne	ne	0	0
Oberlin C.	443	92	44	22	10	0	0	0	0
California State U., San Bernardino	444	267	88	57	9	137	5	5	0
CUNY, York C.	444	ne	ne	8	9	ne	ne	0	0
C. New Jersey	446	58	9	ne	8	29	0	ne	0
Bates C.	447	0	0	0	7	0	0	0	0
Hope C.	447	0	10	0	7	0	0	0	0
California State U., Stanislaus	449	0	0	9	6	0	0	0	0
Franklin and Marshall C.	449	5	4	58	6	0	0	0	0
Loyola Marymount U.	449	80	0	13	6	0	0	0	0
Trinity U.	449	9	11	0	6	0	0	0	0
CUNY, Medgar Evers C.	453	0	0	1	5	0	0	1	5
Eastern Connecticut State U.	453	0	0	1	5	0	0	0	0
Purdue U., Fort Wayne	453	1,439	1,494	15	5	188	284	0	0
SUNY, Oswego	453	1	5	5	5	0	0	0	0
U. New Haven	453	0	0	3	5	0	0	0	0
Austin Peay State U.	458	0	0	3	3	0	0	0	0
Gettysburg C.	458	103	22	7	3	46	0	0	0
Santa Clara U.	458	159	142	6	3	159	142	6	3
Southern U. and A&M C., Baton Rouge	461	8	5	10	2	0	0	8	0
Troy U.	461	ne	ne	ne	2	ne	ne	ne	0
CUNY, Lehman C.	463	125	428	0	1	122	274	0	0
Lafayette C.	463	0	0	11	1	0	0	0	0

TABLE 45

Total and federally financed higher education R&D expenditures in the health sciences, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Missouri U. of Science and Technology	463	0	0	1	1	0	0	0	0
U. Minnesota, Duluth	463	0	0	1	1	0	0	0	0
U. Northern Iowa	463	0	0	0	1	0	0	0	0
All other surveyed institutions	-	342,321	364,127	6,755	0	165,692	212,125	3,363	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $7,354 thousand imputed for total and $5,884 thousand reported for federally financed R&D expenditures in health sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	700,275	750,374	769,993	798,975	437,059	456,806	467,039	486,259
Johns Hopkins U.[a]	1	59,511 i	78,432 i	85,874 i	105,774 i	57,633	73,899	83,057	102,890
U. Texas M. D. Anderson Cancer Center	2	23,331	22,075	20,358	21,622	7,405	6,720	7,403	8,853
U. Texas, Austin	3	11,704	14,581	17,222	20,290	4,402	6,550	7,122	8,882
North Carolina State U.	4	21,909	21,722	20,296	20,164	12,110	13,083	12,331	11,947
Harvard U.	5	20,679	22,908	22,127	20,038	17,272	19,223	18,465	17,747
U. Michigan, Ann Arbor	6	20,517	18,306	18,478	18,648	7,262	5,839	5,874	5,771
Pennsylvania State U., University Park and Hershey Medical Center	7	16,451	19,251	25,057	17,706	12,108	15,494	16,418	13,702
Iowa State U.	8	16,481	17,694	16,551	17,062	8,461	9,141	7,940	10,785
Princeton U.	9	9,915	11,313	11,703	13,550	5,032	4,687	5,639	5,657
New York U.	10	9,950	10,475	12,002	13,465	6,833	6,697	7,105	8,861
U. California, Los Angeles	11	10,573	13,200	13,118	13,161	9,283	10,906	10,515	10,440
Michigan State U.	12	10,342	12,008	11,394	12,494	5,083	5,577	5,481	5,790
Brown U.	13	14,427	12,107	13,225	12,204	11,580	9,140	9,615	9,117
Carnegie Mellon U.	14	11,321	9,308	12,385	12,000	5,466	3,523	3,402	3,183
Massachusetts Institute of Technology	15	7,671	9,888	11,774	10,434	5,309	5,840	6,786	5,091
Duke U.	16	9,306	9,766	10,319	9,842	7,491	7,684	7,549	6,554
Rutgers, State U. New Jersey, New Brunswick	17	14,386	14,362	9,036	9,493	11,017	10,979	7,363	6,214
Rice U.	18	8,903	9,435	9,477	9,363	4,113	4,338	4,099	3,742
U. Minnesota, Twin Cities	19	7,464	7,847	9,822	8,994	5,412	5,659	6,349	5,141
Georgia Institute of Technology	20	7,108	7,543	8,058	8,826	3,167	3,375	4,042	4,104
Texas A&M U., College Station and Health Science Center	21	8,882	9,201	8,700	8,768	5,827	5,839	5,726	5,223
U. California, Berkeley	22	6,402	8,376	8,177	8,263	4,826	5,815	5,689	6,251
SUNY, Stony Brook U.	23	7,463	7,467	6,652	7,629	4,547	4,957	4,756	5,006
Florida State U.	24	4,685	5,542	6,202	7,128	1,883	1,920	1,515	2,096
U. Washington, Seattle	25	6,415	5,678	6,102	7,120	6,007	5,102	5,346	6,115
U. California, Irvine	26	4,273	5,289	5,442	7,106	2,885	3,138	2,698	4,069
Stanford U.	27	6,109	5,505	4,836	7,036	5,212	4,555	4,200	6,338
U. Pennsylvania	28	7,373	5,975	7,432	6,817	2,772	2,308	3,193	2,744
Virginia Polytechnic Institute and State U.	29	10,281	5,765	5,031	6,776	5,232	2,380	2,355	3,308
U. North Carolina, Chapel Hill	30	4,369	3,186	3,049	6,729	3,414	2,836	2,652	5,390
U. Georgia	31	8,027	6,745	7,666	6,690	3,207	1,817	2,301	1,545
U. Wisconsin-Madison	32	5,983	5,825	6,405	6,675	4,086	3,249	3,592	4,286
Arizona State U.	33	5,915	6,571	6,367	5,942	3,797	3,611	2,914	2,728
Ohio State U.	34	6,583	7,130	6,415	5,881	5,470	5,601	5,053	3,945
Dartmouth C. and Dartmouth Hitchcock Medical Center	35	5,839	5,892	5,149	5,848	1,446	501	706	1,030
U. Nebraska, Lincoln	36	5,770	5,536	5,390	5,526	1,943	1,693	1,321	1,254
U. Maryland[b]	37	na	na	4,685	5,356	na	na	3,868	3,660
U. Illinois, Urbana-Champaign	38	5,388	5,669	5,071	5,346	3,777	3,699	3,446	2,719
U. Notre Dame	39	4,343	4,930	5,663	5,257	2,418	2,980	3,129	3,063
Boston U.	40	3,709	4,842	5,236	5,199	2,601	3,113	3,158	2,947
U. California, San Diego	41	5,328	4,478	5,466	4,857	3,662	2,585	2,624	2,456

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Wisconsin-Milwaukee	42	1,442	1,303	1,794	4,792	1,054	947	1,500	3,820
New Jersey Institute of Technology	43	3,771	4,200	4,400	4,756	1,523	1,615	1,808	1,726
U. Chicago	44	7,564	7,414	6,987	4,726	6,326	6,083	5,781	4,078
Yale U.	45	2,384	2,528	3,831	4,703	1,509	1,774	2,260	2,556
U. California, Davis	46	3,901	4,436	4,162	4,455	3,254	3,269	3,249	3,471
Oklahoma State U., Stillwater	47	3,496	4,886	4,585	4,213	443	1,483	675	569
Colorado State U., Fort Collins	48	3,195	4,240	4,392	4,190	3,067	3,838	4,041	3,768
U. Pittsburgh, Pittsburgh	49	3,320	3,821	4,442	4,169	2,033	2,507	2,775	2,777
Columbia U. in the City of New York	50	4,600	5,841	5,725	4,118	3,543	3,903	4,347	3,054
U. Illinois, Chicago	51	4,526	4,197	4,386	4,109	2,241	2,171	2,357	2,407
U. Utah	52	3,176	4,496 i	3,722 i	4,065 i	2,894	2,893	2,176	2,452
San Diego State U.	53	3,450	3,790	4,061	3,899	1,081	1,482	1,274	907
Auburn U., Auburn	54	3,094	662	3,706	3,736	337	413	335	332
U. Houston	55	2,316	3,387	3,083	3,596	1,720	1,877	2,485	3,015
Tufts U.	56	1,489	1,839	1,811	3,409	1,317	1,483	1,253	2,852
Texas Tech U.	57	4,176	4,332	3,590	3,402	906	760	324	239
U. Massachusetts, Amherst	58	2,392	2,429	3,636	3,361	1,599	1,548	2,244	2,093
Cornell U.	59	2,797	3,494	3,341	3,323	2,135	2,552	2,268	2,519
Kansas State U.	60	1,143	3,020	3,416	3,246	503	368	386	230
Temple U.	61	1,466	1,760	1,262	3,213	807	915	884	923
U. Central Florida	62	2,678	3,075	3,144	3,197	548	423	518	780
U. Tennessee, Knoxville[c]	63	1,369	3,372	3,390	3,181	1,074	1,044	974	642
California State U., Bakersfield	64	1,482	1,691	2,952	3,173	1,297	1,327	2,190	2,451
U. South Florida, Tampa	65	2,488	2,463	2,685	3,165	848	638	622	948
U. Arizona	66	2,749	2,233	2,449	3,098	1,702	1,647	1,942	2,295
U. California, Merced	67	1,021	1,323	2,299	3,047	629	923	1,587	2,472
U. Texas, El Paso	68	727	668	1,466	2,927	215	196	1,104	1,270
California Polytechnic State U., San Luis Obispo	69	1,353	1,361	1,711	2,841	872	1,188	1,387	2,430
SUNY, Binghamton U.	70	2,623	2,328	2,468	2,830	165	109	99	85
Naval Postgraduate School	71	3,181	2,735	2,394	2,824	2,457	2,344	1,718	1,867
Rensselaer Polytechnic Institute	72	1,878	1,641	2,258	2,808	1,281	1,114	1,469	1,480
Louisiana State U., Baton Rouge	73	2,084	2,146	2,419	2,701	1,639	1,714	1,808	2,241
Purdue U., West Lafayette	74	5,922	6,314	3,185	2,671	4,062	4,439	2,081	1,609
U. Colorado Boulder	75	2,434	2,409	2,711	2,659	2,338	2,271	2,626	2,555
Clemson U.	76	3,174	4,655	3,052	2,607	1,344	1,738	1,808	1,548
Montana State U., Bozeman	77	562	758	1,565	2,536	559	750	1,371	1,281
Syracuse U.	78	2,581	2,815	3,001	2,528	347	443	542	300
Emory U.	79	1,961	3,049	2,715	2,357	1,331	2,017	1,975	1,926
U. Nevada, Las Vegas	80	154	1,550	1,471	2,347	98	108	14	15
U. Connecticut	81	1,805	2,296	2,362	2,344	1,014	1,435	1,370	1,361
U. Nevada, Reno	82	650	1,451	2,609	2,341	113	267	894	805
Northwestern U.	83	2,461	2,869	2,461	2,275	1,657	1,891	1,675	1,580
Michigan Technological U.	84	2,234	2,122	2,085	2,260	397	272	216	359
U. Texas Rio Grande Valley	85	390	268	1,881	2,174	287	109	151	196
U. Vermont	86	605	327	612	2,154	398	123	395	247
U. Louisiana, Lafayette	87	1,537	1,603	3,226	2,117	583	131	48	91
U. Texas, Arlington	88	1,835	1,992	2,276	2,053	603	695	798	748

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Rochester Institute of Technology	89	1,461	2,115	1,750	2,040	1,073	1,519	1,257	1,503
U. Oklahoma, Norman and Health Science Center	90	309	377	477	2,018	258	256	390	361
Georgia State U.	91	1,781	1,973	2,045	1,973	731	969	1,020	1,148
Mississippi State U.	92	1,122	1,304	1,310	1,959	51	120	172	172
George Mason U.	93	1,892	1,578	1,981	1,941	1,246	938	737	1,008
U. Delaware	94	2,030	1,908	2,227	1,887	1,748	1,565	1,743	1,565
U. South Carolina, Columbia	95	1,939	2,131	2,100	1,817	1,393	1,227	1,217	1,185
SUNY, U. Albany	96	1,376	1,053	1,443	1,774	183	87	197	196
Georgetown U.	97	245	263	24	1,765	67	142	24	0
Indiana U., Bloomington	98	3,031	2,269	1,773	1,740	1,804	1,512	987	1,299
Marquette U.	99	1,252	1,686	1,863	1,734	770	942	1,300	1,217
U. Florida	100	1,203	1,471	2,346	1,726	711	886	1,497	985
Wayne State U.	101	1,177	3,801	1,393	1,716	966	1,527	1,269	1,184
Vanderbilt U. and Vanderbilt U. Medical Center	102	1,762	1,739	1,211	1,689	915	953	685	902
U. California, Riverside	103	1,406	1,689	2,251	1,682	983	1,048	1,588	1,120
U. North Texas, Denton	104	316	491	1,409	1,676	94	113	201	202
U. Southern California	105	1,218	1,220	1,500	1,617	898	977	1,077	1,264
Rockefeller U.	106	1,887	1,474	1,602	1,612	437	152	331	306
Oregon State U.	107	1,186	2,003	2,074	1,595	650	1,418	1,515	1,108
U. Virginia, Charlottesville	108	1,183	1,582	1,698	1,593	1,030	884	1,138	1,125
American U.	109	1,741	1,618	1,319	1,559	322	328	340	370
U. Texas, San Antonio	110	371	272	586	1,529	150	184	135	115
Florida International U.	111	1,147	1,162	1,394	1,470	72	56	111	138
U. Cincinnati	112	2,278	2,322	1,949	1,422	1,024	1,156	1,060	665
U. New Mexico	112	807	1,119	1,638	1,422	674	971	1,542	1,337
U. Miami	114	913	992	581	1,420	509	424	239	301
U. California, Santa Barbara	115	1,801	1,234	1,711	1,416	1,457	883	1,035	944
Worcester Polytechnic Institute	116	1,374	1,684	1,253	1,404	624	1,009	946	799
California Institute of Technology	117	1,641	1,475	1,534	1,387	1,141	902	816	755
U. Kentucky	118	903	809	1,685	1,336	654	529	1,430	1,088
Kent State U.	119	1,387	1,156	1,637	1,309	335	238	268	300
Southern Methodist U.	120	946	982	1,486	1,291	822	719	1,037	961
Boston C.	121	1,230	1,113	1,015	1,289	964	1,008	960	1,064
U. Missouri, Columbia	122	2,069	1,670	1,308	1,279	1,696	1,444	1,094	1,017
U. Wyoming	123	9,542	10,004	1,499	1,276	2,540	2,684	1,426	1,155
Florida Atlantic U.	124	357	631	883	1,268	156	289	363	519
U. Memphis	125	1,015	845	892	1,241	696	290	298	493
Tuskegee U.	126	21 i	17	1,216	1,240	17	17	1,216	1,240
Old Dominion U.	127	4,323	3,994	7,507	1,239	3,123	3,205	4,318	952
U. Montana, Missoula	128	307	470	1,256	1,187	244	391	704	734
U. Texas, Dallas	129	1,393	866	1,063	1,155	590	412	683	668
Boise State U.	130	1,528	1,534	582	1,137	415	263	393	904
U. Hawaii, Hilo	131	328	646	944	1,126	230	455	759	863
North Dakota State U.	132	901	38	714	1,120	21	0	0	150
Portland State U.	133	1,267	832	933	1,115	1,159	704	745	794
SUNY, U. Buffalo	134	949	901	1,083	1,067	623	538	583	597
San Francisco State U.	135	1,104	1,063	1,023	1,060 i	259	170	309	322 i

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas State U.	136	521	444	908	1,038	235	110	680	799
U. North Carolina, Charlotte	137	613	976	902	1,029	599	803	568	820
U.S. Naval Academy	138	701	1,131	936	1,013	492	786	636	799
California State U., Northridge	139	1,042	1,348	786	980	1,042	1,243	777	901
Washington U., Saint Louis	140	671	616	639	959	622	578	613	902
Baylor U.	141	526	693	1,104	933	221	208	253	284
George Washington U.	142	1,279	1,154	1,709	926	564	713	1,129	631
U. Alabama, Birmingham	143	324	320	876	916	316	289	844	875
U. Oregon	144	954	1,064	908	906	866	898	792	853
California State U., East Bay	145	ne	ne	ne	896	ne	ne	ne	0
Northeastern U.	146	451	927	780	878	317	787	649	685
Delaware State U.	147	1,428	561	834	865 i	1,295	418	455	474 i
Utah State U.	148	538	791	736	846	312	366	301	268
U. Maine	149	124	101	1,115	845	58	21	59	65
North Carolina Agricultural and Technical State U.	150	64	493	872	818	29	416	800	748
Southern Illinois U., Edwardsville	151	402	569	263	817	137	177	199	212
Virginia Commonwealth U.	152	1,048	1,085	890	793	693	595	625	609
Cleveland State U.	153	1,786	1,058	823	784	373	430	283	232
Clarkson U.	154	987	848	1,046	780	562	596	724	571
Louisiana Tech U.	155	684	636	726	771	158	93	168	238
U. Maryland, Baltimore County	156	1,017	1,467	592	729	879	1,127	371	368
Montclair State U.	157	232	593	952	726	185	522	425	327
U. Alabama, Huntsville	157	512	500	627	726	59	45	44	2
U. Massachusetts, Dartmouth	159	846	801	1,026	717	282	236	831	239
U. of the Virgin Islands	160	1,054	670	740	694	994	670	740	694
California State U., Long Beach	161	581	574	621	691	576	562	601	673
CUNY, C. Staten Island	161	122	521 i	470	691	75	182 i	222	513
U. Kansas	163	1,425	1,166	999	672	1,322	1,084	924	649
U. Massachusetts, Lowell	164	629	972	636	663	147	0	0	0
Air Force Institute of Technology	165	538	1,092	1,313	658	366	551	691	497
St. Edward's U.	166	450	220	470	645	320	130	450	600
Virginia State U.	166	101	650	1,333	645	20	473	1,010	645
California State U., San Bernardino	168	1,576	948	681	633	1,193	847	666	427
U. Iowa	169	773	749	710	624	537	456	398	340
Indiana U.-Purdue U., Indianapolis	170	742	543	610	595	595	444	519	460
Saginaw Valley State U.	171	12	199	617	588	2	181	607	587
Colorado School of Mines	172	569	302	404	583	516	280	397	571
Tulane U.	173	1,768	1,718	814	581	1,006	665	374	441
Bryn Mawr C.	174	606	608	460	561	212	202	73	114
Brandeis U.	175	650 i	790	677	551	379	341	424	401
Drexel U.	176	809	704	497	546	578	636	429	452
Wesleyan U.	177	297	391	553	533	122	288	472	390
Bowling Green State U.	178	426	408	341	532	188	149	123	140
Wake Forest U.	179	168	97	408	529	166	92	158	134
U. Colorado Denver and Anschutz Medical Campus	180	559	313	584	524	539	282	550	501
U. Hawaii, Manoa	181	352	363	466	515	241	316	399	457
U. Louisville	182	141	104	67	494	131	99	51	84

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
West Virginia U.	183	933	5,106	625	482	571	2,477	493	369
Long Island U.	184	5	0	0	457	5	0	0	0
Tarleton State U.	185	3	0	192	450	0	0	26	2
U. Massachusetts, Boston	186	188	83	298	449	127	38	40	14
Washington State U.	187	712	1,611	475	447	399	1,045	249	289
William & Mary	188	232	324	601	438	180	278	510	242
U. North Dakota	189	381	384	383	434	0	0	0	0
California State U., Fresno	190	175	149	214	412	131	115	182	287
CUNY, New York City C. of Technology	191	ne	239	694	409	ne	87	138	0
Grinnell C.	192	181	398	798	407	51	129	89	72
Illinois Institute of Technology	193	785	296	211	405	764	271	210	389
U. New Hampshire	194	209	229	291	404	144	164	251	339
South Dakota State U.	195	421	391	488	401	350	267	259	262
Williams C.	195	422	428	419	401 i	260	262	236	227 i
Bucknell U.	197	78 i	83	418	399 i	31 i	30	222	214 i
CUNY, City C.	198	876	733	579	389	682	588	509	313
U. New Orleans	198	0	40	204	389	0	0	18	0
Vassar C.	200	820	1,953 i	428	357	820	1,953 i	424	350
Case Western Reserve U.	201	671	671	558	355	595	600	485	325
Brigham Young U., Provo	202	1,335	799	614	348	1,186	759	562	331
Western Washington U.	203	645	669	499	347	292	261	222	217
U. Alaska, Fairbanks	204	514	454	507	346	498	428	507	321
Amherst C.	205	224	372	267	340	137	255	163	225
South Dakota School of Mines and Technology	206	93	133	141	339	77	117	126	339
Sam Houston State U.	207	95	274	368	338	55	230	345	319
CUNY, Baruch C.	208	77	134	175	325	42	101	155	321
U. West Florida	209	40	35	45	313	9	0	0	0
Miami U.	210	350	241	376	310	211	114	192	139
Elizabeth City State U.	211	520	619	ne	287	510	619	ne	287
Saint Louis U.	212	104	74	56	280	82	20	38	266
Southern Illinois U., Carbondale	213	177	74	31	278	106	16	14	0
U. of the District of Columbia	214	282	166	629	277	282	166	629	277
CUNY, Lehman C.	215	19	13	26	271	0	0	0	259
U. Missouri, Saint Louis	216	162	242	211	265	62	176	135	235
U. Alabama, Tuscaloosa	217	99	43	179	262	6	19	154	226
Wellesley C.	218	4	79	109	255	1	55	0	240
U. California, Santa Cruz	219	481	387	303	236	331	274	267	161
California State U., Monterey Bay	220	0	0	0	234	0	0	0	148
Duquesne U.	221	17	0	255	233	1	0	131	120
Florida Gulf Coast U.	222	53	22	17	232	53	22	0	149
Howard U.	223	295	225	222	230	185	116	0	0
Illinois State U.	224	565	355	296	229	439	264	185	119
CUNY, Queens C.	225	212	346	302	228	165	299	255	160
Lehigh U.	225	179	167	187	228	160	150	143	194
Hampton U.	227	422	413	217	226	422	413	217	226
U. San Diego	228	77	77	274	225	38	71	241	141
Mercer U.	229	0	183	194	224	0	0	0	0

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Reed C.	230	289	275	370	223	56	116	121	151
Missouri U. of Science and Technology	231	144	222	440	222	120	174	373	218
CUNY, Brooklyn C.	232	188	169	212 i	221	169	152	211 i	220
Eastern Michigan U.	233	258	102	143	216	36	86	105	37
U. Mississippi	233	910	1,023	1,236	216	19	132	71	47
U. North Carolina, Greensboro	235	257	271	210	215	241	239	170	167
U. Idaho	236	755	599	213	205	669	487	108	120
Creighton U.	237	222 i	192 i	237 i	204 i	117 i	82 i	118 i	108 i
Texas Southern U.	237	0	32	144	204	0	32	144	204
U. Rochester	239	302	348	213	201	288	333	194	185
U. Nebraska, Omaha	240	183	304	333	200	38	206	219	162
Murray State U.	241	82	84	62	198	81	83	61	198
Carleton C.	242	181	398	216	196	129	62	0	41
West Chester U. Pennsylvania	242	297	297	340	196	14	64	80	60
U. Southern Mississippi	244	235	315	96	195	22	18	96	195
California State U., Stanislaus	245	16	16	160	194	15	15	160	194
Clark Atlanta U.	245	1	0	128	194	0	0	128	157
U. Tennessee, Chattanooga	247	52	135	335	189	43	24	49	81
Florida Institute of Technology	248	630	365	345	188	608	111	92	71
Loyola U., Chicago	248	297	131	405	188	176	63	345	164
New Mexico State U.	248	223	74	41	188	169	39	8	151
Loyola Marymount U.	251	10	29	124	187	0	0	74	117
William Paterson U.	252	4	242	257	185	0	0	0	0
Fort Valley State U.	253	187	0	36	184	169	0	0	158
Seattle U.	253	231	218	206	184	210	202	177	159
Smith C.	255	515	348	296	182	469	276	211	121
California State U., Channel Islands	256	58	141	341	181	49	130	283	171
U. Northern Colorado	256	438	535	672	181	331	449	570	117
Towson U.	258	58	48	84	179	0	0	0	50
CUNY, Hunter C.	259	22	24	95	174	7	22	43	114
Harvey Mudd C.	259	154	212	219	174	81	173	151	113
Lewis and Clark C.	259	94	108	100	174	6	13	19	45
Fordham U.	262	210	228	242	173	37	60	58	66
Grand Valley State U.	263	203	226	299	166	164	179	234	94
Morehouse C.	263	211	222	256	166	211	222	256	166
U. South Dakota	265	191	139	181	160	0	0	0	0
James Madison U.	266	24	76	312	159	24	69	154	104
U. Michigan, Dearborn	267	84	136	228	155	47	77	139	110
U. Minnesota, Duluth	268	401	242	236	152	224	165	142	108
Lincoln U., Jefferson City	269	226	280	234	150	226	280	234	150
East Tennessee State U.	270	75	0 i	19 i	149 i	75	0	16	123
U. of the Incarnate Word	271	ne	140	127	148	ne	140	127	148
Manhattan C.	272	ne	ne	0	147	ne	ne	0	147
Mount Holyoke C.	272	172	162	370	147	172	145	347	147
Prairie View A&M U.	274	36	26	7	145	0	0	0	0
U. Puerto Rico, Rio Piedras	274	117	145	172	145	110	144	166	102
Wright State U.	274	369	456	153	145	272	332	116	72

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Davidson C.	277	31	60	74	142	0	0	12	61
Sonoma State U.	278	ne	ne	ne	141	ne	ne	ne	91
U. Detroit Mercy	279	169	2	2	140	35	0	0	0
California State Polytechnic U., Pomona	280	0	291	42	138	0	213	33	102
Macalester C.	280	113	70	23	138	59	0	15	96
Morgan State U.	282	623	448	328	134	538	420	284	105
U. Hartford	283	27	0	183	131	27	0	183	131
Pomona C.	284	223	274	270	129	131	219	202	82
Stephen F. Austin State U.	284	0	112	642	129	0	82	640	128
Haverford C.	286	102 i	94 i	63 i	127 i	80	68	29	65
U. Central Oklahoma	287	117	104	126	126 i	91	86	94	93 i
Kentucky State U.	288	0 i	0	3	125	0 i	0	3	125
Central Michigan U.	289	93	92	183	120	38	45	125	52
U. Denver	289	193	206	123	120	150	124	92	68
California State U., Dominguez Hills	291	50	56	76	116	16	15	21	53
Salisbury U.	292	26	35	0	113	0	0	0	0
U. Wisconsin-La Crosse	293	129	164	107	112	100	143	87	77
Tennessee State U.	294	163	86	98	111	160	79	89	104
Kennesaw State U.	295	89	1,338	2,427	107	0	0	5	4
U. Richmond	296	118	103	90	106	114	97	43	21
U. North Carolina, Wilmington	297	46	98	83	105	34	91	80	48
Wichita State U.	297	278	265	105	105	230	256	95	72
C. Wooster	299	215	69	63	104	205	54	62	55
Central Washington U.	299	48	106	154	104	48	79	112	52
Swarthmore C.	301	201	123	171	103	171	84	109	63
Jackson State U.	302	251	89	68	97	224	66	47	84
U. Arkansas, Fayetteville	302	400	407	286	97	298	277	148	71
California State U., Sacramento	304	34	45	41	94	0	0	5	0
Rutgers, State U. New Jersey, Camden	304	0	9	0	94	0	9	0	84
SUNY, Buffalo State	306	0	0	0	91	0	0	0	91
Appalachian State U.	307	85	146	41	90	29	0	0	5
Ohio U.	307	124 i	76 i	101	90	77	15	67	76
Claremont McKenna C.	309	218	36	74	85	203	18	64	78
Colgate U.	310	27	47	50	84	0	0	0	56
Embry-Riddle Aeronautical U.	310	172	21	33	84	0	5	0	23
Trinity U.	310	100	59	53	84	79	47	39	68
Alabama A&M U.	313	204 i	164 i	123 i	83 i	154 i	119 i	84 i	56 i
Hobart and William Smith Colleges	313	28	ne	80	83	0	ne	78	83
California State U., San Marcos	315	688	572	711	82	688	572	711	82
U. Akron	315	533	210	178	82	359	117	119	60
U. Wisconsin-Eau Claire	315	77	77	105	82	77	52	41	35
C. Charleston	318	178	63	146	81	95	13	36	0
Northern Kentucky U.	318	0	0	0	81	0	0	0	71
U. South Alabama	320	81	55	31	80	50	8	17	79
Eastern Connecticut State U.	321	73	80	5	79	0	0	0	0
Oregon Institute of Technology	322	0 i	0 i	85 i	77 i	0 i	0	0 i	0
Northern Illinois U.	323	164	136	129	76	74	65	52	24

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
East Carolina U.	324	15	51	11	75	10	0	0	0
Fairfield U.	324	316	40	43	75	98	40	43	74
Claremont Graduate U.	326	2 i	3 i	3	70	0 i	0 i	0	70
U. North Florida	326	22	52	43	70	0	0	0	0
Lafayette C.	328	117	292	119	69	115	274	102	56
Purdue U., Fort Wayne	328	164	93	50	69	51	26	22	19
Hope C.	330	29	28	10	68	22	21	2	58
Trinity C., Hartford	330	55	38	28	68	28	24	0	52
Georgia Southern U.	332	128	105	57	67	24	13	11	30
St. John's U., New York	333	8	67	59	66	0	52	53	64
Azusa Pacific U.	334	75	99	42	64	0	16	18	0
Ithaca C.	334	ne	ne	ne	64	ne	ne	ne	64
Villanova U.	336	137	185	186	60	113	160	144	2
Tennessee Technological U.	337	139	2	0	59	118	0	0	0
Occidental C.	338	0	0	38	58	0	0	38	58
California State U., Chico	339	64	124	61	57	64	118	61	10
Lamar U.	340	9	226	132	55	0	44	82	54
New Mexico Institute of Mining and Technology	341	82	150	155	53	82	150	155	50
Northeastern Illinois U.	341	3	37	60	53	3	37	60	53
Franklin and Marshall C.	343	176	252	255	52	68	115	126	22
Ball State U.	344	107	139	140	51	13	48	38	35
St. Olaf C.	344	312	90	109	51	303	55	87	23
CUNY, Medgar Evers C.	346	72	30	61	49	54	9	51	44
U. Toledo	346	80	175	49	49	2	69	29	36
Norfolk State U.	348	122	49	58	48	62	49	58	48
Spelman C.	348	1	45	202	48	1	45	202	48
New Jersey City U.	350	13	15	15	47	13	15	0	42
U. Washington, Tacoma	350	46	18	0	47	46	18	0	47
U. Puerto Rico, Mayaguez	352	792	752	176	45	409	427	137	25
Benedict C.	353	75	95	52	44	75	95	44	44
U. of St. Thomas (MN)	354	73	55	37	43	65	30	17	40
Pacific U.	355	74	55	57	42	28	0	0	9
U. Minnesota, Morris	355	22	ne	197	42	12	ne	36	37
SUNY, Geneseo	357	40	100	106	41	30	56	60	35
Western Michigan U. and Homer Stryker M.D. School of Medicine	358	210	159	73	40	124	69	1	9
Middle Tennessee State U.	359	100	353	169	39	63	293	0	0
Central State U.	360	121	61	44	37	121	61	44	37
Stevens Institute of Technology	360	287	258	237	37	93	39	0	0
Southern Connecticut State U.	362	0	2	142	35	0	0	0	0
Oakland U.	363	69	22	73	34	61	22	28	34
Union C., Schenectady	364	51	22	18	33	33	0	0	13
Pepperdine U.	365	64	28	22	32	29	1	0	0
Albion C.	366	20	30	16	31	0	0	0	0
Calvin U.	366	63	152	32	31 i	63	139	32	31 i
U. Washington, Bothell	366	0	85	20	31	0	0	20	31
Colby C.	369	15	42	32	30	0	0	0	10
Roger Williams U.	369	37	10	13	30	27	10	10	13

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Bowdoin C.	371	96	65	71	29	86	50	58	24
Barnard C.	372	90	84	74	27	88	82	66	22
Western Kentucky U.	372	129	73	55	27	13	18	48	11
Indiana U. Pennsylvania	374	3	12	20	26	0	0	0	0
Texas A&M U.-Commerce	374	12	32	13	26	0	0	0	0
U. San Francisco	376	11	8	14	25	7	0	1	16
Eastern Kentucky U.	377	14	54	50	24	14	54	50	24
U. Central Arkansas	377	56	198	45	24	5	65	10	15
Colorado C.	379	110	128	38	23	89	104	15	0
CUNY, Graduate Center	379	0	0	34	23	0	0	34	23
Indiana State U.	379	0	10	27	23	0	10	27	23
Keck Graduate Institute	379	0 i	21 i	23 i	23 i	0 i	14 i	15 i	15 i
Texas Woman's U.	379	56	19	68	23	0	0	0	0
Santa Clara U.	384	23	0	6	22	19	0	0	20
U. Texas, Tyler	384	83	100	95	22	82	93	76	20
Pennsylvania State U., Behrend	386	56	48	94	21	27	15	18	15
Texas A&M U.-Corpus Christi	386	18	35	47	21	0	0	0	0
U. Wisconsin-Platteville	386	23 i	ne	20 i	21 i	10 i	ne	8 i	8 i
Black Hills State U.	389	0	0	0	19	0	0	0	0
Mercyhurst U.	389	0 i	ne	19 i	19 i	0 i	ne	10 i	10 i
Northwestern State U. Louisiana	389	12	12	19	19	0	0	0	0
Hamilton C.	392	35	8	12	18	0	0	0	0
U. Wisconsin-Green Bay	392	23 i	14 i	18 i	18 i	17 i	6 i	8 i	9 i
C. of Saint Benedict	394	43	19	18 i	17 i	0	0	0 i	0 i
Central Connecticut State U.	394	32	ne	24	17	0	ne	0	0
U. Wisconsin-Oshkosh	394	15 i	16 i	16 i	17 i	12 i	13 i	12 i	13 i
Bates C.	397	13	12	30	16	0	0	11	8
California Lutheran U.	397	ne	ne	56	16	ne	ne	0	0
Kenyon C.	397	ne	27	31	16	ne	0	0	0
Mills C.	397	0	0	0	16	0	0	0	0
Saint John's U., Collegeville	397	38	17	17 i	16 i	0	0	0 i	0 i
Eastern Washington U.	402	0	0	2	15	0	0	2	15
Hawaii Pacific U.	403	8	24	11	14	8	24	11	14
U. Missouri, Kansas City	403	69	230	14	14	18	149	6	0
Augusta U.	405	29	0	23	13	0	0	23	13
Claflin U.	405	16	11	27	13	16	11	27	13
Stockton U.	405	ne	0	0	13	ne	0	0	0
Fisk U.	408	243	0	0	12	237	0	0	12
Skidmore C.	408	8	10	20	12	0	0	7	0
Biola U.	410	9 i	9 i	12 i	11 i	7 i	6 i	8 i	8 i
California State U., Fullerton	410	7	4	29	11	0	0	0	0
U. Colorado Colorado Springs	410	108	77	67	11	106	77	66	11
Western Carolina U.	410	7	7	7	11	0	0	0	3
Wheaton C., Wheaton	410	15	29	7	11	0	0	0	0
California State U., Los Angeles	415	28	46	28 i	10	28	46	28	10
Humboldt State U.	415	0	5	0	10	0	0	0	0
Lipscomb U.	415	ne	ne	ne	10 i	ne	ne	ne	7 i
U. Houston-Downtown	415	402	119	75	10	400	111	72	9

TABLE 46

Total and federally financed higher education R&D expenditures in mathematics and statistics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Willamette U.	415	95	88	11	10	84	80	0	0
Dickinson C.	420	0	ne	6	9	0	ne	0	0
Niagara U.	420	10	5	4	9	0	0	0	0
Columbus State U.	422	ne	ne	ne	8	ne	ne	ne	0
U. Nebraska, Kearney	422	2	1	4	8	0	0	0	0
U. of Mary Washington	422	ne	17	12	8	ne	0	0	0
Christopher Newport U.	425	0	0	0	7	0	0	0	0
Midwestern State U.	425	ne	ne	ne	7	ne	ne	ne	6
C. New Jersey	427	23	4	ne	6	23	3	ne	4
Colorado State U., Pueblo	427	ne	ne	11	6	ne	ne	11	6
Pace U.	427	0	2	0	6	0	0	0	0
Saint Joseph's U.	427	18	14	17	6	0	0	0	0
Troy U.	427	ne	ne	ne	6	ne	ne	ne	4
Youngstown State U.	427	18	18	12	6	18	15	0	1
CUNY, John Jay C. of Criminal Justice	433	6	7	5	5	0	0	0	5
Gettysburg C.	433	1	17	3	5	0	0	0	5
Southern U. and A&M C., Baton Rouge	433	0	16	39	5	0	0	9	0
SUNY, C. Brockport	433	23	10	7	5	15	0	0	0
U. Maryland Center for Environmental Science	433	0	0	42	5	0	0	27	0
Winston-Salem State U.	433	0	0	45	5	0	0	45	0
Arkansas State U., Jonesboro	439	2	4	3	4	0	0	0	0
Hofstra U.	439	8	8	12	4	0	0	0	0
Oberlin C.	439	21	35	44	4	0	0	1	0
U. Dayton	439	28	0	0	4	0	0	0	0
U. New Haven	439	0	0	0	4	0	0	0	0
U. Puget Sound	439	10	ne	ne	4	0	ne	ne	0
U. Tulsa	439	95	20	36	4	67	0	0	0
Andrews U.	446	ne	ne	3	3	ne	ne	0	0
Austin Peay State U.	446	0	0	0	3	0	0	0	0
Citadel Military C. South Carolina	446	ne	ne	ne	3	ne	ne	ne	0
Gallaudet U.	446	2	0	3	3	2	0	0	0
Grambling State U.	446	304	280	82	3	304	260	82	3
Kettering U.	451	0	17	7	2	0	0	0	0
Langston U.	451	3 i	2 i	2	2	3 i	2 i	2	2
Liberty U.	451	ne	ne	22	2	ne	ne	0	0
Texas Christian U.	451	157	123	169	2	135	69	52	2
Chapman U.	455	115	0	0	1	0	0	0	0
Marshall U.	455	131	0	0	1	64	0	0	0
Texas A&M International U.	455	32	1	8	1	8	0	0	0
U. North Georgia	455	18	127	6	1	16	0	0	0
U. Northern Iowa	455	7	10	4	1	0	0	0	0
U. Puerto Rico, Humacao	455	ne	2	0	1	ne	2	0	1
West Texas A&M U.	455	110	105	52	1	102	93	50	0
Western Illinois U.	455	1	9	14	1	0	0	0	0
All other surveyed institutions	-	11,213	9,960	853	0	6,771	6,130	657	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $103,569 thousand imputed for total and $100,883 thousand reported for federally financed R&D expenditures in mathematics and statistics in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	5,049,994	5,232,066	5,551,490	5,667,046	780,080	1,926,772	252,193	2,434,467	273,534
Johns Hopkins U.[a]	1	189,415 i	243,916 i	323,619 i	390,245 i	96,033 i	25,946 i	4,300 i	232,583 i	31,383 i
California Institute of Technology	2	192,478	188,604	188,041	217,581	49,859	40,638	20,847	106,237	0
Michigan State U.	3	191,923	169,148	151,159	154,318	39	11,806	0	142,473	0
Massachusetts Institute of Technology	4	127,856	124,145	136,601	153,044	35,202	32,375	6,864	48,695	29,908
U. Arizona	5	126,361	127,847	139,315	149,138	121,908	14,511	3,434	9,230	55
U. California, Berkeley	6	143,095	130,883	130,895	141,434	66,219	36,326	63	32,085	6,741
Cornell U.	7	112,256	122,144	122,968	121,218	10,728	27,423	4,382	48,658	30,027
U. Colorado Boulder	8	74,376	84,938	107,416	115,340	28,747	9,041	0	69,967	7,585
U. Maryland[b]	9	na	na	102,720	105,718	36,409	10,389	463	46,013	12,444
U. Rochester	10	89,368	93,061	111,388	101,004	0	5,309	0	95,695	0
Harvard U.	11	84,679	84,054	94,515	100,654	16,435	33,675	0	49,146	1,398
Stanford U.	12	92,056	88,010	95,084	94,954	6,031	25,478	11,383	48,826	3,236
Princeton U.	13	70,706	82,329	88,235	94,815	24,682	25,095	3,611	40,161	1,266
Pennsylvania State U., University Park and Hershey Medical Center	14	87,175	93,913	99,485	94,201	15,788	17,696	34,436	26,281	0
U. California, San Diego	15	67,380	67,509	85,322	94,124	0	27,429	0	66,169	526
U. Wisconsin-Madison	16	71,282	73,381	75,231	83,687	5,564	31,441	0	24,984	21,698
U. Texas, Austin	17	76,290	77,735	81,357	81,380	13,187	16,470	24,874	26,463	386
Northwestern U.	18	71,743	82,409	82,072	78,168	6,604	35,130	16,418	15,418	4,598
U. Illinois, Urbana-Champaign	19	65,579	69,612	69,531	72,360	10,212	34,642	0	27,506	0
U. California, San Francisco	20	63,015	63,010	65,942	69,662	0	68,745	0	917	0
Florida State U.	21	63,307	67,753	61,706	68,454	840	23,225	2,327	41,870	192
U. Michigan, Ann Arbor	22	60,437	59,815	61,017	60,824	5,867	31,361	0	23,596	0
U. Washington, Seattle	23	56,292	54,074	58,166	60,477	11,172	24,008	1,968	19,281	4,048
U. California, Santa Barbara	24	58,251	49,160	65,929	58,534	6,419	9,166	18,605	23,427	917
U. Pennsylvania	25	46,244	55,476	60,150	58,157	1,579	21,246	13,961	21,371	0
Ohio State U.	26	37,522	39,895	46,223	57,083	6,264	28,972	840	21,007	0
Yale U.	27	61,511	63,981	62,247	56,046	6,853	21,309	0	27,884	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. California, Los Angeles	28	57,004	55,568	60,067	54,697	38	19,842	0	33,263	1,554
Texas A&M U., College Station and Health Science Center	29	54,015	54,890	55,920	54,574	7,336	24,507	4,142	17,848	741
U. Chicago	30	55,752	51,285	52,656	51,122	8,611	24,631	5,185	12,688	7
U. Houston	31	30,672	32,572	43,378	50,164	118	40,835	200	8,637	374
U. Notre Dame	32	41,291	42,506	45,062	44,855	0	29,216	0	15,639	0
U. Minnesota, Twin Cities	33	38,747	39,527	45,573	43,946	1,937	22,061	0	19,948	0
Purdue U., West Lafayette	34	34,740	37,542	38,081	42,370	0	22,953	0	19,417	0
SUNY, Stony Brook U.	35	33,115	39,938	41,679	41,224	2,213	12,396	0	26,615	0
U. California, Irvine	36	39,032	37,914	40,872	40,964	0	21,988	0	18,770	206
U. North Carolina, Chapel Hill	37	33,807	35,118	37,055	39,979	613	22,546	0	10,472	6,348
Columbia U. in the City of New York	38	46,452	32,070	35,369	37,384	6,444	11,983	6,626	12,331	0
U. California, Santa Cruz	39	27,698	29,547	32,576	36,262	18,690	10,478	0	6,991	103
U. Central Florida	40	31,009	27,810	30,415	34,630	0	4,627	0	29,883	120
Georgia Institute of Technology	41	37,000	37,983	38,229	34,215	0	22,323	0	11,892	0
Rice U.	42	32,195	29,448	34,759	33,656	1,276	16,251	22	16,107	0
Indiana U., Bloomington	43	31,873	26,019	31,099	33,389	1,354	19,310	0	12,725	0
Boston U.	44	27,450	29,879	30,805	30,909	2,677	14,230	0	14,002	0
U. Utah	45	25,908	24,919 i	54,131 i	30,170 i	9,853 i	18,018 i	0 i	0 i	2,299 i
U. Hawaii, Manoa	46	24,974	23,775	27,285	29,491	18,827	2,401	0	4,021	4,242
U. Massachusetts, Amherst	47	22,383	24,443	31,623	28,757	4,838	14,992	0	8,927	0
Vanderbilt U. and Vanderbilt U. Medical Center	48	31,035	29,053	28,951	28,017	0	13,559	0	14,458	0
U. Pittsburgh, Pittsburgh	49	32,546	30,869	30,196	27,652	3,087	16,058	0	8,507	0
U. Virginia, Charlottesville	50	34,663	25,154	26,742	27,628	3,424	11,980	0	12,224	0
Florida International U.	51	13,119	18,688	24,968	27,354	0	18,412	0	8,185	757
Iowa State U.	52	27,491	42,277	40,040	27,216	0	12,374	0	14,842	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
New York U.	53	20,631	23,915	26,098	26,698	0	13,753	0	12,945	0
U. California, Davis	54	27,092	23,212	26,589	26,495	0	13,607	0	10,195	2,693
New Mexico State U.	55	30,701	25,776	25,535	26,366	7,548	5,296	0	1,386	12,136
U. Nebraska, Lincoln	56	24,191	28,112	26,100	25,853	0	11,631	427	13,795	0
Rutgers, State U. New Jersey, New Brunswick	57	35,580	26,313	29,660	25,703	2,229	6,321	2,211	12,903	2,039
Arizona State U.	58	26,376	24,779	26,050	25,619	0	13,030	0	12,338	251
U. Florida	59	28,062	25,940	26,341	25,532	1,339	10,773	0	13,128	292
U. Delaware	60	23,387	23,634	27,410	25,192	1,080	8,146	10,537	5,429	0
Washington State U.	61	32,219	31,387	32,628	24,243	209	8,512	1,111	12,549	1,862
Virginia Polytechnic Institute and State U.	62	18,453	21,049	26,835	24,214	39	14,242	1,025	7,831	1,077
U. Southern California	63	16,075	17,751	20,109	23,644	16	14,232	1,433	5,508	2,455
North Carolina State U.	64	19,270	21,204	22,753	23,464	0	11,821	0	11,615	28
Washington U., Saint Louis	65	21,811	22,345	24,852	23,401	0	12,722	5,619	5,060	0
U. Iowa	66	21,629	25,142	24,300	23,226	712	5,415	0	17,099	0
Emory U.	67	21,099	22,517	23,150	22,505	0	19,048	0	3,433	24
Duke U.	68	17,992	19,322	21,176	22,396	0	9,809	0	12,587	0
Louisiana State U., Baton Rouge	69	19,472	24,133	23,944	22,366	0	8,252	0	13,851	263
Carnegie Mellon U.	70	18,921	20,096	19,508	21,580	0	9,207	291	11,458	624
U. Tennessee, Knoxville[c]	71	22,091	24,307	25,677	21,239	0	6,816	0	14,423	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	72	19,855	18,977	18,757	21,219	0	9,198	0	12,021	0
Northeastern U.	73	16,426	17,483	19,445	20,709	0	7,636	13	12,711	349
Georgia State U.	74	17,949	17,221	17,836	19,395	4,102	9,304	0	5,727	262
U. Massachusetts, Lowell	75	13,425	14,184	17,976	19,144	0	4,475	0	14,669	0
U. Texas M. D. Anderson Cancer Center	76	12,763	15,858	19,017	19,060	0	0	0	19,060	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Oklahoma, Norman and Health Science Center	77	12,061	14,899	15,362	18,739	0	12,342	0	6,397	0
SUNY, Binghamton U.	78	16,304	20,446	14,920	18,586	0	11,900	0	6,624	62
U. Connecticut	79	15,352	16,816	16,829	18,546	0	5,868	6,644	6,034	0
Temple U.	80	17,047	15,235	16,205	18,447	0	9,606	0	6,708	2,133
U. Maryland, Baltimore County	81	14,000	13,821	17,039	18,278	13,778	1,558	189	2,753	0
Montana State U., Bozeman	82	12,248	10,912	15,021	17,990	0	8,796	0	9,194	0
U. Texas, Dallas	83	14,048	12,433	15,515	17,759	3,602	5,614	32	5,219	3,292
Brown U.	84	18,050	20,720	19,259	17,745	0	5,201	0	7,968	4,576
Catholic U. of America	85	18,592	19,319	17,660	17,669	0	659	0	12,213	4,797
U. Texas, Arlington	86	13,273	16,067	15,590	17,257	0	5,740	0	10,782	735
U. California, Riverside	87	17,562	16,505	16,166	17,037	0	9,260	0	7,777	0
Wayne State U.	88	14,693	17,898	20,013	16,895	0	10,163	0	3,654	3,078
New Jersey Institute of Technology	89	12,988	13,042	15,338	15,829	8,008	3,563	510	3,748	0
U. Illinois, Chicago	90	13,332	12,602	14,456	15,752	0	7,868	0	7,884	0
U. Alaska, Fairbanks	91	14,459	13,107	13,534	15,551	15,424	57	0	0	70
Tufts U.	92	7,207	68,855	11,377	15,438	281	10,325	2,793	1,621	418
Auburn U., Auburn	93	9,622	11,626	13,220	15,247	0	7,222	60	7,842	123
Texas Tech U.	94	14,532	15,455	14,408	15,103	0	7,136	548	7,419	0
Syracuse U.	95	14,282	13,242	15,894	13,905	0	4,276	0	9,629	0
Rochester Institute of Technology	96	12,393	12,578	18,059	13,830	0	522	0	3,504	9,804
U. Southern Mississippi	97	11,528	13,416	15,682	13,422	0	11,328	0	7	2,087
U. Alabama, Huntsville	98	10,415	14,459	12,963	13,353	10,224	1,300	0	1,767	62
U. Oregon	99	13,591	13,908	14,773	12,984	0	4,910	737	7,248	89
West Virginia U.	100	12,133	15,392	14,339	12,678	0	4,868	0	7,810	0
Kansas State U.	101	9,960	13,475	14,413	12,583	0	4,374	0	8,209	0
Rensselaer Polytechnic Institute	102	16,534	14,662	15,038	12,143	0	5,704	0	2,554	3,885
U. Mississippi	103	13,606	10,951	14,617	11,652	0	3,994	0	7,658	0
U. South Florida, Tampa	104	11,895	12,725	14,060	11,433	0	6,507	0	4,213	713

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Colorado State U., Fort Collins	105	10,825	13,908	14,464	11,356	0	8,042	71	2,855	388
Colorado School of Mines	106	9,396	8,980	8,796	11,346	0	2,691	697	5,398	2,560
U. Georgia	107	11,280	19,257	13,275	11,295	589	8,005	0	2,701	0
U. Texas, San Antonio	108	12,884	11,561	10,617	11,234	0	6,980	0	4,254	0
SUNY, U. Buffalo	109	13,498	13,301	11,644	11,161	0	7,461	174	3,526	0
Clemson U.	110	9,963	12,320	11,401	10,823	0	4,327	195	5,747	554
Mississippi State U.	111	8,992	10,131	11,312	10,381	21	6,041	718	3,475	126
Jackson State U.	112	7,259	8,859	9,159	9,903	0	8,452	0	1,451	0
U. Arkansas, Fayetteville	113	8,332	9,667	9,454	9,791	0	5,478	0	4,313	0
Oklahoma State U., Stillwater	114	8,398	8,503	8,458	9,784	0	5,180	0	4,604	0
U. Nevada, Las Vegas	115	8,772	9,520	9,099	9,692	263	5,140	4	3,807	478
CUNY, City C.	116	12,506	10,496	9,935	9,591	0	5,164	0	3,361	1,066
U. Nevada, Reno	117	6,594	11,017	10,153	9,566	480	3,903	107	4,235	841
Brandeis U.	118	10,684 i	10,266	9,838	9,384	0	2,502	0	6,866	16
Boston C.	119	8,233	8,313	9,572	9,306	0	7,492	0	1,814	0
U. North Texas, Denton	120	6,424	5,358	7,586	9,275	0	5,586	0	3,689	0
U. Missouri, Columbia	121	14,109	13,985	10,286	9,173	0	5,730	0	3,443	0
Naval Postgraduate School	122	6,377	6,105	8,797	9,161	517	348	172	6,244	1,880
Georgetown U.	123	6,827	6,488	7,281	9,151	0	3,318	0	5,833	0
U. Cincinnati	124	8,699	9,056	9,641	8,874	0	5,796	0	3,078	0
U. Wisconsin-Milwaukee	125	13,372	14,409	11,076	8,699	0	2,173	0	6,526	0
U. Akron	126	11,144	10,305	9,643	8,576	0	8,576	0	0	0
U. Kentucky	127	7,525	7,069	8,173	8,553	0	4,802	0	3,751	0
Kent State U.	128	7,455	6,597	7,744	8,381	94	2,091	2,685	2,591	920
George Washington U.	129	6,494	7,191	7,634	8,313	3	3,976	0	4,334	0
U. California, Office of the President	130	14,584	13,253	7,973	8,123	8,123	0	0	0	0
Case Western Reserve U.	131	11,782	5,756	10,756	8,063	273	2,955	3,032	1,767	36
U. New Mexico	131	8,789	8,970	7,148	8,063	1,045	2,704	35	4,272	7

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Air Force Institute of Technology	133	4,668	5,871	8,478	7,796	0	0	0	7,796	0
SUNY, U. Albany	134	6,946	7,858	7,811	7,719	0	5,292	0	2,427	0
U. California, Merced	135	6,530	6,260	7,307	7,593	0	2,630	1,862	3,101	0
U. Montana, Missoula	136	5,060	6,570	7,749	7,592	0	2,782	0	260	4,550
U. Kansas	137	12,224	8,845	8,686	7,502	560	4,499	333	2,108	2
U. Toledo	138	7,360	8,752	7,438	7,445	741	1,935	0	4,645	124
Xavier U. Louisiana	139	8,007	6,921	5,879	7,186	0	7,186	0	0	0
Rockefeller U.	140	8,466	8,539	7,577	7,184	0	4,720	0	2,464	0
Northern Arizona U.	141	2,755	3,763	5,643	7,064	4,687	799	478	941	159
Old Dominion U.	142	7,626	6,562	7,547	7,028	0	2,297	0	4,731	0
Baylor U.	143	6,908	6,994	6,891	6,993	29	3,921	0	2,968	75
U. Texas, El Paso	144	7,737	7,841	7,587	6,775	0	4,620	0	2,155	0
Utah State U.	145	4,873	5,962	6,756	6,606	0	3,101	0	2,462	1,043
North Dakota State U.	146	8,121	6,900	6,903	6,502	0	3,106	2,664	732	0
U. Alabama, Tuscaloosa	147	6,275	7,501	5,815	6,471	4	2,937	0	3,530	0
San Diego State U.	148	5,488	5,873	6,333	6,402	766	4,075	0	1,561	0
U. Maine	149	3,978	5,451	7,628	6,351	0	1,087	0	5,264	0
Missouri U. of Science and Technology	150	3,008	3,614	3,463	6,107	0	2,315	0	3,792	0
William & Mary	151	5,565	5,219	6,554	5,781	0	501	0	5,280	0
Tulane U.	152	6,900	5,732	6,448	5,720	0	2,734	0	2,986	0
California Polytechnic State U., San Luis Obispo	153	2,057	1,884	7,589	5,672	0	456	0	2,494	2,722
George Mason U.	154	4,100	4,783	6,295	5,586	3,292	304	904	842	244
Northern Illinois U.	155	4,661	6,446	6,106	5,560	0	1,536	0	4,024	0
Georgia Southern U.	156	882	842	692	5,465	144	1,476	3,725	120	0
California State U., Northridge	157	3,302	2,672	3,225	5,407	357	666	0	2,567	1,817
Ohio U.	158	5,893 i	5,358 i	4,501	5,370	0	1,399	0	3,971	0
Howard U.	159	3,808	4,058	5,277	5,308	0	4,546	0	762	0
Brigham Young U., Provo	160	4,894	4,905	5,854	5,268	0	3,234	0	2,034	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
California State U., Los Angeles	161	4,409	5,202	6,385 i	5,241	0	4,602	0	639	0
U. Miami	162	7,502	5,861	5,567	5,150	0	1,437	0	3,713	0
U. Texas Rio Grande Valley	163	3,398	2,843	4,499	5,148	2,354	1,669	13	595	517
U. Denver	164	4,273	4,589	4,083	4,913	143	3,314	0	1,456	0
U. Vermont	165	2,066	2,297	3,235	4,877	0	2,415	21	2,441	0
Oakland U.	166	2,192	2,026	4,650	4,821	0	2,521	0	2,300	0
Oregon State U.	167	4,131	4,801	6,247	4,814	69	2,788	551	1,310	96
American U.	168	2,504	3,545	5,167	4,714	0	847	0	3,867	0
U. Alabama, Birmingham	169	5,667	7,211	5,961	4,678	0	1,018	1,169	2,491	0
U. South Carolina, Columbia	170	12,942	7,025	7,007	4,651	0	1,205	0	2,806	640
Delaware State U.	171	3,764	3,709	4,306	4,461 i	0 i	613 i	0 i	3,848 i	0 i
U. Puerto Rico, Rio Piedras	172	6,260	3,739	5,127	4,429	0	2,776	0	1,653	0
U. New Hampshire	173	2,234	4,554	3,521	4,425	0	1,428	325	2,672	0
CUNY, Hunter C.	174	3,628	4,500	4,739	4,197	0	3,003	0	1,194	0
CUNY, Advanced Science Research Center	175	1,130	747	2,983	4,154	0	1,376	0	2,778	0
Michigan Technological U.	176	3,285	3,486	3,722	4,094	0	1,925	0	2,169	0
U. South Dakota	177	2,464	2,957	5,059	4,054	0	2,499	0	1,555	0
U. North Carolina, Charlotte	178	3,060	3,935	4,389	4,003	0	1,261	0	2,742	0
U. Rhode Island	179	3,764	3,713	3,194	3,869	0	2,081	0	100	1,688
Southern Methodist U.	180	3,570	3,339	3,591	3,847	0	1,469	0	2,378	0
Boise State U.	181	1,117	3,737	3,358	3,788	147	857	2,582	202	0
U. Massachusetts, Boston	182	1,763	2,273	3,363	3,584	0	2,370	0	1,214	0
Villanova U.	183	1,983	2,248	2,743	3,573	682	2,371	0	520	0
U. Louisiana, Lafayette	184	3,232	3,011	1,369	3,546	0	1,256	1,007	1,283	0
U. North Carolina, Greensboro	185	3,748	3,494	3,521	3,505	0	2,028	0	50	1,427

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Virginia Commonwealth U.	186	2,873	3,607	3,469	3,499	0	2,250	0	1,249	0
Lehigh U.	187	4,731	5,081	3,396	3,495	0	2,147	0	1,348	0
U. North Dakota	188	6,041	3,119	3,607	3,489	0	2,212	154	1,123	0
San Francisco State U.	189	3,779	3,734	3,088	3,200 i	203 i	1,466 i	95 i	1,351 i	85 i
Florida Atlantic U.	190	3,640	2,653	2,794	3,147	0	1,772	0	991	384
Illinois Institute of Technology	191	4,075	3,843	3,609	3,143	0	319	324	2,476	24
Hampton U.	192	4,615	4,129	4,044	3,142	0	0	0	3,142	0
North Carolina Central U.	193	4,019	3,575	2,774	3,027	0	149	0	2,878	0
U. Memphis	194	1,414	1,883	2,157	3,014	80	2,143	0	791	0
U. Louisville	195	1,654	1,805	3,058	2,954	147	1,820	192	426	369
Florida Institute of Technology	196	2,398	2,253	2,078	2,777	944	469	0	1,364	0
Worcester Polytechnic Institute	197	2,959	3,096	4,991	2,773	0	1,422	0	1,351	0
Embry-Riddle Aeronautical U.	198	849	1,954	2,332	2,744	0	0	0	1,787	957
U.S. Air Force Academy	199	3,433	1,521	2,933	2,714	0	0	0	2,714	0
Marquette U.	200	1,933	2,789	2,517	2,681	0	2,361	0	320	0
California State U., Long Beach	201	3,808	4,445	4,363	2,670	194	2,474	2	0	0
Haverford C.	202	585 i	1,195 i	2,039 i	2,581 i	255 i	394 i	1,784 i	147 i	1 i
Central Michigan U.	203	1,993	2,426	2,908	2,508	105	31	0	2,366	6
San Jose State U.	204	1,498	1,649	2,041	2,445	24	1,787	0	626	8
Drexel U.	205	2,663	3,806	2,793	2,437	0	902	1,277	258	0
U. New Orleans	206	2,090	1,939	2,144	2,398	0	1,595	0	803	0
Rutgers, State U. New Jersey, Newark	207	2,099	2,162	1,978	2,384	0	1,976	0	408	0
Wesleyan U.	208	2,904	2,998	2,876	2,383	477	776	0	1,130	0
Bowling Green State U.	209	2,455	3,112	2,362	2,326	0	1,477	0	849	0
Duquesne U.	209	2,410	2,631	2,581	2,326	0	2,204	0	122	0
Portland State U.	209	4,101	3,450	2,911	2,326	0	1,782	126	418	0
Indiana U.-Purdue U., Indianapolis	212	1,889	2,132	2,396	2,324	0	1,799	0	509	16
Clarkson U.	213	1,091	1,055	2,498	2,217	0	1,829	0	388	0
CUNY, Lehman C.	214	1,952	2,181	1,624	2,208	101	1,698	0	409	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Texas State U.	214	3,671	3,248	2,741	2,208	0	1,141	0	735	332
Wake Forest U.	216	2,162	1,755	3,071	2,196	0	575	255	1,366	0
East Carolina U.	217	613	1,464	2,177	2,168	0	1,354	0	814	0
U.S. Naval Academy	218	2,714	2,173	2,794	2,144	0	927	0	1,217	0
U. Massachusetts, Dartmouth	219	1,217	1,208	1,755	2,116	0	1,601	16	499	0
Chapman U.	220	2,306	1,280	1,816	2,062	0	370	0	81	1,611
Mercer U.	221	20	1,694	2,189	2,038	0	1,951	0	87	0
Southern Illinois U., Carbondale	222	3,304	3,163	1,619	2,013	0	1,318	251	327	117
South Dakota State U.	223	3,922	2,964	2,951	1,974	0	1,941	0	33	0
Saint Louis U.	224	1,092	1,685	2,384	1,942	0	1,786	0	156	0
U. Missouri, Saint Louis	225	2,034	2,333	2,636	1,910	143	1,764	0	3	0
Stevens Institute of Technology	226	1,461	1,520	2,045	1,834	0	10	0	1,824	0
Western Kentucky U.	227	2,793	2,019	1,845	1,785	0	1,360	0	425	0
Louisiana Tech U.	228	2,023	2,058	1,843	1,775	0	711	0	980	84
Wright State U.	229	2,480	2,720	1,757	1,774	0	390	0	1,250	134
U. Missouri, Kansas City	230	2,193	2,168	2,026	1,680	195	591	0	894	0
California State U., San Marcos	231	203	1,106	901	1,667	0	61	0	841	765
Clark Atlanta U.	232	1,713	992	1,265	1,649	0	978	0	671	0
Clark U.	233	633	664	889	1,648	0	594	0	1,054	0
North Carolina Agricultural and Technical State U.	234	1,083	1,808	1,889	1,638	0	522	0	1,116	0
California State U., San Bernardino	235	1,233	1,337	1,219	1,569	25	4	992	0	548
Cleveland State U.	236	1,750	1,318	1,372	1,547	0	761	0	786	0
U. Idaho	237	3,007	1,871	2,030	1,539	630	613	48	245	3
Amherst C.	238	1,526	1,500	2,374	1,534	47	782	0	705	0
Morehouse C.	239	2,136	2,740	1,704	1,517	0	177	0	216	1,124
U. San Diego	240	832	975	1,300	1,496	0	578	0	918	0
Creighton U.	241	1,699 i	1,381 i	1,691 i	1,463 i	0 i	626 i	0 i	837 i	0 i
CUNY, Queens C.	242	1,160	1,463	1,446	1,444	0	955	0	458	31
Texas A&M U.-Corpus Christi	243	361	356	1,362	1,437	0	181	92	0	1,164

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
South Dakota School of Mines and Technology	244	1,876	1,848	1,602	1,425	0	732	0	693	0
Bryn Mawr C.	245	1,375	1,285	1,057	1,423	0	758	0	462	203
Florida A&M U.	246	3,501	6,083	3,488	1,410	0	39	0	1,371	0
California State Polytechnic U., Pomona	247	703	1,701	693	1,395	1,196	110	0	89	0
Idaho State U.	248	3,900	4,490	3,709	1,372	0	564	66	742	0
New Mexico Institute of Mining and Technology	249	1,288	1,464	1,970	1,361	0	287	0	1,074	0
Prairie View A&M U.	250	1,644	1,741	1,082	1,353	0	421	0	932	0
U. Puerto Rico, Mayaguez	251	2,371	1,739	1,172	1,347	0	980	0	367	0
James Madison U.	252	654	1,297	1,295	1,337	37	766	0	298	236
Miami U.	253	1,955	1,913	1,046	1,329	0	1,185	0	142	2
Western Washington U.	254	1,325	1,322	1,183	1,323	286	1,037	0	0	0
Hope C.	255	2,500	1,859	1,843	1,315	0	615	0	560	140
Western Michigan U. and Homer Stryker M.D. School of Medicine	256	1,274	1,266	1,221	1,309	0	649	0	660	0
California State U., Fullerton	257	941	1,156	1,180	1,254	607	166	0	481	0
U. Wyoming	258	2,866	4,632	1,825	1,248	0	554	0	679	15
Williams C.	259	1,265	1,372	1,312	1,245 i	208 i	156 i	0 i	315 i	566 i
U. Maryland, Eastern Shore	260	69	1,305	1,278	1,243	0	7	0	0	1,236
Trinity U.	261	905	1,316	1,369	1,230	0	1,012	0	218	0
Troy U.	262	ne	ne	ne	1,216	0	0	1,216	0	0
U. Colorado Denver and Anschutz Medical Campus	263	942	829	1,385	1,192	0	838	0	348	6
Tennessee Technological U.	264	1,255	1,491	1,289	1,178	0	583	0	594	1
California State U., Fresno	265	1,069	1,114	1,157	1,127	0	748	0	283	96
Wichita State U.	266	666	649	947	1,114	0	945	0	0	169
CUNY, Brooklyn C.	267	1,749	1,240	1,067 i	1,105	0	789	0	193	123

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Arkansas, Little Rock	267	246	905	926	1,105	0	1,088	17	0	0
U. Puerto Rico, Humacao	269	ne	933	852	1,090	201	200	689	0	0
St. Edward's U.	270	1,624	760	456	1,074	219	750	0	55	50
Marshall U.	271	850	499	684	1,030	0	1,019	0	11	0
Kennesaw State U.	272	1,895	944	2,079	1,019	0	731	0	288	0
Dillard U.	273	1,123	797	606	975	0	16	0	959	0
South Carolina State U.	274	1,552	1,630 i	930	965 i	174 i	0 i	0 i	182 i	609 i
U. North Carolina, Asheville	275	506	313	680	958	42	180	0	0	736
California State U., East Bay	276	ne	ne	ne	939	0	296	0	584	59
Texas A&M U.-Commerce	276	550	1,125	883	939	0	129	0	810	0
Furman U.	278	1,286	1,146	983	925	0	913	0	12	0
Southern Illinois U., Edwardsville	279	876	1,720	586	911	0	911	0	0	0
U. Northern Iowa	279	644	731	1,289	911	0	825	0	86	0
U. of the Virgin Islands	281	0	0	15	908	0	159	0	749	0
Reed C.	282	123	374	623	886	0	757	0	129	0
Barnard C.	283	739	520	1,004	885	544	341	0	0	0
Arkansas State U., Jonesboro	284	1,109	745	988	876	0	840	0	36	0
Pomona C.	285	588	652	519	872	323	446	0	103	0
U. Dayton	286	1,932	1,579	1,247	868	0	8	422	438	0
CUNY, C. Staten Island	287	709	1,547 i	1,657	860	0	311	0	542	7
Grambling State U.	288	1,250	1,063	845	852	0	468	0	65	319
Southern Connecticut State U.	289	643	622	430	846	616	118	0	13	99
U. Minnesota, Duluth	290	914	1,005	1,065	840	0	717	0	123	0
Ball State U.	291	398	700	993	834	0	801	0	9	24
Christopher Newport U.	292	413	386	758	829	0	63	0	766	0
U. Wisconsin-Eau Claire	293	901	716	930	814	14	457	343	0	0
U.S. Military Academy	293	448	120	35	814	13	419	0	269	113
SUNY, Geneseo	295	879	932	902	785	0	102	0	683	0
Long Island U.	296	77	60	198	784	0	675	0	109	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Northern Kentucky U.	297	420	490	701	778	77	431	0	270	0
Loyola U., Chicago	298	907	1,128	1,286	763	0	711	0	52	0
Lewis and Clark C.	299	498	313	268	749	0	151	0	598	0
Fordham U.	300	295	68	868	747	0	747	0	0	0
Grinnell C.	301	978	1,127	1,012	742	59	625	0	58	0
Southern U. and A&M C., Baton Rouge	302	1,895	1,556	1,167	735	0	101	0	634	0
Swarthmore C.	303	960	1,120	946	734	150	231	0	353	0
Norfolk State U.	304	792	800	819	726	0	76	0	650	0
Spelman C.	305	184	620	595	713	0	713	0	0	0
Carleton C.	306	425	640	723	704	132	488	0	84	0
C. Charleston	307	1,255	880	923	700	170	131	264	135	0
U. Central Oklahoma	308	456	718	701	696 i	0 i	139 i	0 i	557 i	0 i
Texas Christian U.	309	873	784	690	695	0	377	0	299	19
Eastern Michigan U.	310	359	357	491	690	68	410	98	114	0
U. North Florida	311	667	568	524	682	0	485	0	197	0
Rowan U.	312	894	1,056	1,190	664	0	388	0	276	0
Texas Southern U.	313	181	196	211	661	0	661	0	0	0
Kettering U.	314	721	503	211	648	0	115	0	285	248
Alabama A&M U.	315	1,582 i	1,257 i	932 i	636 i	0 i	305 i	0 i	331 i	0 i
CUNY, Graduate Center	316	8	0	353	630	0	0	0	630	0
Colgate U.	317	526	682	769	618	39	432	0	147	0
Middle Tennessee State U.	318	958	388	417	596	251	345	0	0	0
Montclair State U.	319	187	256	260	589	39	507	0	43	0
U. Central Arkansas	320	726	622	665	585	0	505	0	80	0
U. of the Sciences Philadelphia	321	495	730	644	580	0	533	0	47	0
U. West Florida	322	488	472	695	576	0	0	0	0	576
CUNY, York C.	323	ne	ne	883	568	23	331	0	214	0
Illinois State U.	324	587	658	886	567	0	338	0	229	0
California State U., Dominguez Hills	325	734	837	821	556	0	531	0	25	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Winston-Salem State U.	326	309	255	320	554	31	437	0	86	0
Harvey Mudd C.	327	565	929	526	543	0	259	0	284	0
New Mexico Highlands U.	328	724	714	ne	541	0	541	0	0	0
U. Maryland Center for Environmental Science	328	841	702	289	541	0	416	0	72	53
U. Arkansas, Pine Bluff	330	326	405	448	540	0	540	0	0	0
Franklin and Marshall C.	331	635	994	722	539	55	406	0	78	0
Bucknell U.	332	595 i	650	538	512 i	100 i	252 i	0 i	160 i	0 i
CUNY, John Jay C. of Criminal Justice	333	410	329	222	507	0	220	0	238	49
Mount Holyoke C.	334	1,547	1,248	1,037	496	360	114	0	22	0
Santa Clara U.	335	438	792	423	487	0	342	0	145	0
Oberlin C.	336	800	616	485	483	0	213	0	270	0
Sam Houston State U.	337	390	390	550	481	0	407	0	74	0
Towson U.	338	364	898	787	476	39	246	0	191	0
Fort Lewis C.	339	ne	ne	1	470	0	44	426	0	0
Tennessee State U.	340	951	511	452	457	400	57	0	0	0
Calvin U.	341	583	542	462	441 i	0 i	310 i	0 i	131 i	0 i
East Tennessee State U.	342	193	425 i	368 i	439 i	121 i	91 i	0 i	227 i	0 i
U. South Alabama	343	319	278	471	433	0	407	0	26	0
U. Richmond	344	946	600	450	430	0	318	0	112	0
Middlebury C.	345	530	418	459	429	150	253	0	19	7
Indiana U. Pennsylvania	346	315	208	269	425	0	207	0	218	0
West Chester U. Pennsylvania	346	739	648	504	425	72	255	0	98	0
U. Tulsa	348	1,291	866	585	424	0	261	0	163	0
Albion C.	349	406	273	380	422	17	204	0	84	117
Missouri State U.	350	164	180	386	418	91	22	0	305	0
U. Wisconsin-La Crosse	351	288	406	298	416	0	228	0	188	0
Occidental C.	352	229	355	424	414	0	181	0	103	130
Morgan State U.	353	285	116	34	411	0	177	0	234	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Appalachian State U.	354	528	330	262	408	65	226	2	115	0
Bates C.	355	695	575	531	405	39	211	0	155	0
St. John's U., New York	355	950	311	273	405	0	329	0	76	0
U. Houston-Clear Lake	357	463	676	520	403	0	26	0	0	377
Seton Hall U.	358	0	0	0	401	0	401	0	0	0
Florida Gulf Coast U.	359	37	0	138	397	140	257	0	0	0
Colby C.	360	416	512	397	391	0	302	0	89	0
Wellesley C.	360	926	1,240	1,426	391	0	283	0	0	108
Providence C.	362	165	175	93	390	20	370	0	0	0
Lafayette C.	363	256	348	379	388	0	156	0	227	5
Ithaca C.	364	ne	ne	ne	378	280	76	0	22	0
Macalester C.	365	603	458	435	377	0	206	0	171	0
U. North Carolina, Wilmington	366	562	525	597	375	0	208	0	110	57
Grand Valley State U.	367	456	634	276	374	0	364	0	10	0
C. New Jersey	368	216	305	ne	366	0	54	0	312	0
Skidmore C.	369	201	253	334	363	0	314	0	49	0
U. Ana G. Mendez, Gurabo	370	295	396	1,061	362	0	362	0	0	0
Rhode Island C.	371	154	130	132	361	0	0	0	179	182
Tougaloo C.	371	80	848	849	361	0	280	0	81	0
William Paterson U.	371	58	189	264	361	0	267	0	94	0
West Virginia State U.	374	204	353	235	357	0	357	0	0	0
Whitman C.	375	ne	ne	460	356	6	246	0	104	0
Rutgers, State U. New Jersey, Camden	376	9	19	80	354	0	322	0	32	0
Connecticut C.	377	641	542	902	350	0	350	0	0	0
Youngstown State U.	378	393	92	135	346	141	182	0	23	0
U. Wisconsin-River Falls	379	512	378	ne	330	0	155	0	175	0
Southeastern Louisiana U.	380	254	304	106	326	0	213	0	113	0
Smith C.	381	280	433	499	321	2	217	0	102	0
U. Nebraska, Kearney	382	848	230	652	320	15	281	0	17	7
Winthrop U.	383	213	358	443	317	0	150	167	0	0
SUNY, Oswego	384	505	538	388	314	0	291	0	23	0
U. of the Pacific	385	164	248	431	307	108	144	0	55	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Central Washington U.	386	280	322	229	306	0	197	0	109	0
DePaul U.	387	241	243	229	305	0	38	0	267	0
Johnson C. Smith U.	388	0	228	66	300	0	300	0	0	0
Kenyon C.	388	ne	506	444	300	0	9	0	291	0
CUNY, Baruch C.	390	232	293	375	297	0	21	0	276	0
California State U., Sacramento	391	283	267	344	296	0	89	0	207	0
SUNY, C. of Environmental Science and Forestry	392	336	175	257	294	160	94	0	0	40
Yeshiva U.	393	0	0	0	286	0	0	0	286	0
U. New Haven	394	0	207	576	285	0	122	161	2	0
Bowie State U.	395	111	293	246	272	0	175	0	0	97
U. Colorado Colorado Springs	396	807	472	217	270	0	0	0	145	125
Willamette U.	397	225	353	363	269	0	161	0	108	0
Union C., Schenectady	398	290	309	609	268	120	38	0	110	0
Tarleton State U.	399	98	125	303	263	0	257	0	0	6
Fayetteville State U.	400	616	300	200	260	0	212	0	48	0
Claflin U.	401	484	600	508	258	0	208	0	50	0
Western Carolina U.	402	157	196	342	253	0	253	0	0	0
U. Puget Sound	403	210	ne	ne	252	0	156	0	96	0
Vassar C.	404	234	773 i	172	250	0	18	0	232	0
Framingham State U.	405	17	28	ne	247	0	247	0	0	0
Davidson C.	406	489	333	352	242	0	154	43	45	0
Bowdoin C.	407	267	338	364	239	0	77	0	131	31
C. Wooster	408	338	642	568	235	0	160	0	75	0
U. of St. Thomas (MN)	408	323	234	360	235	0	94	0	61	80
Loyola Marymount U.	410	266	266	423	233	0	231	0	2	0
U. of the Incarnate Word	411	ne	602	418	226	0	226	0	0	0
Salish Kootenai C.	412	665	869	553	222	0	222	0	0	0
U. Hawaii, Hilo	413	368	479	164	217	2	179	0	36	0
CUNY, Medgar Evers C.	414	313	359	362	216	50	166	0	0	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
CUNY, New York City C. of Technology	415	ne	48	350	212	0	0	0	212	0
Fisk U.	415	2,725	197	0	212	0	0	0	200	12
Salisbury U.	415	177	128	534	212	0	169	0	43	0
West Texas A&M U.	418	49	46	127	211	0	211	0	0	0
Hamilton C.	419	208	238	198	208	0	164	0	44	0
Purdue U., Northwest	420	229	305	115	207	0	207	0	0	0
Azusa Pacific U.	421	307	332	179	205	0	137	0	68	0
Texas Woman's U.	422	93	145	155	204	49	0	0	0	155
Gettysburg C.	423	92	399	301	203	0	55	0	80	68
Sonoma State U.	423	ne	ne	ne	203	0	88	0	0	115
U. Puerto Rico, Cayey	423	231	138	140	203	0	155	0	48	0
Andrews U.	426	ne	ne	184	196	191	0	0	5	0
Saint Joseph's U.	427	303	284	508	194	0	128	0	66	0
Humboldt State U.	428	108	127	201	193	0	39	10	144	0
Murray State U.	429	83	222	358	185	0	165	0	20	0
U. Alaska, Anchorage	430	22	17	16	184	125	59	0	0	0
California State U., Chico	431	4	126	186	182	6	26	0	150	0
Hobart and William Smith Colleges	432	264	ne	263	175	0	30	0	95	50
C. of Saint Benedict	433	209	179	176 i	167 i	0 i	130 i	0 i	37 i	0 i
Saint Michael's C.	433	135	273	269	167	0	125	0	42	0
Tuskegee U.	435	472 i	383	163	166	0	134	0	32	0
Seattle U.	436	152	208	157	165	0	86	0	79	0
Texas A&M U.-Kingsville	437	170	83	196	164	0	163	0	1	0
Indiana State U.	438	148	168	155	160	0	39	0	121	0
Fort Hays State U.	439	ne	ne	155	158	0	72	0	86	0
U. Washington, Bothell	440	0	35	256	156	0	0	0	156	0
Fairfield U.	441	702	95	442	153	0	84	0	52	17
Wheaton C., Wheaton	442	93	93	201	150	0	57	0	93	0
Benedict C.	443	314	518	374	146	0	146	0	0	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All physical sciences		Astronomy and astrophysics		Chemistry		Materials science		Physics		Physical sciences nec	
Claremont McKenna C.	444	67		40		144		144		0		85		0		59		0	
Pace U.	445	350		349		199		138		0		138		0		0		0	
U. Michigan, Dearborn	446	230		107		217		135		0		0		0		0		135	
Mercyhurst U.	447	35	i	ne		129	i	132	i	0	i	57	i	0	i	75	i	0	i
Saint John's U., Collegeville	447	172		141		139	i	132	i	0	i	99	i	0	i	33	i	0	i
U. Wisconsin-Oshkosh	449	113	i	119	i	124	i	128	i	20	i	52	i	0	i	56	i	0	i
Purdue U., Fort Wayne	450	72		61		101		126		0		123		0		3		0	
SUNY, C. Plattsburgh	450	275		393		376		126		0		0		0		126		0	
U. Wisconsin-Green Bay	452	76	i	87	i	127	i	125	i	0	i	62	i	0	i	63	i	0	i
Doane U.	453	ne		251		121		123	i	0	i	123	i	0	i	0	i	0	i
Montana Technological U.	453	243		110		62		123		0		123		0		0		0	
U. Northern Colorado	455	92		236		110		122		19		53		0		50		0	
Pacific U.	456	870		878		962		120		8		71		0		41		0	
Citadel Military C. South Carolina	457	ne		ne		ne		119		0		23		0		0		96	
Black Hills State U.	458	695		414		407		116		0		0		0		116		0	
California Lutheran U.	459	ne		ne		91		112		0		95		0		17		0	
U. Minnesota, Morris	460	55		ne		24		110		0		94		0		16		0	
Weber State U.	460	ne		ne		ne		110		0		74		0		36		0	
Langston U.	462	41	i	40	i	37		109		0		0		0		0		109	
St. Olaf C.	463	302		254		139		106		0		75		0		31		0	
U. Wisconsin-Stevens Point	464	66	i	79	i	92	i	105		0		62		0		43		0	
Roger Williams U.	465	645		331		154		101		0		3		0		0		98	
U. Wisconsin-Platteville	465	78	i	ne		99	i	101	i	0	i	101	i	0	i	0	i	0	i
Suffolk U.	467	263	i	ne		ne		100		0		97		0		3		0	
Eastern Kentucky U.	468	305		65		0		95		0		55		0		40		0	
California State U., Bakersfield	469	88		6		420		91		0		91		0		0		0	
U. North Georgia	469	47		71		68		91		0		0		0		91		0	
Biola U.	471	73	i	78	i	82	i	85	i	0	i	35	i	0	i	50	i	0	i

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Milwaukee School of Engineering	471	86	49	69	85	0	0	0	85	0
Elon U.	473	139	146	89	83	0	39	0	27	17
Central Connecticut State U.	474	67	ne	118	82	0	78	0	4	0
New Jersey City U.	474	1,185	2,105	60	82	0	82	0	0	0
Bradley U.	476	69	150	279	81	0	81	0	0	0
Lamar U.	477	133	158	188	80	0	54	0	26	0
Western Illinois U.	478	8	12	57	78	0	39	0	39	0
Florida Polytechnic U.	479	ne	ne	68	76	0	17	0	59	0
Colorado C.	480	417	267	102	75	0	38	0	37	0
U. North Carolina, general administration	480	0	1,452	632	75	0	0	0	0	75
SUNY, C. Brockport	482	5	4	48	74	0	69	0	5	0
Lipscomb U.	483	ne	ne	ne	73 i	0 i	28 i	0 i	45 i	0 i
Fort Valley State U.	484	102	88	104	72	0	72	0	0	0
Keene State C.	484	7	ne	91	72	0	72	0	0	0
U. Houston-Downtown	484	89	73	77	72	0	72	0	0	0
U. San Francisco	484	81	89	83	72	0	45	0	27	0
Manhattan C.	488	ne	ne	55	71	0	71	0	0	0
U. Baltimore	489	15	62	72	67	0	0	0	0	67
Eastern Washington U.	490	106	212	152	66	0	0	0	66	0
Northeastern Illinois U.	490	75	88	84	66	0	0	0	0	66
U. Nebraska, Omaha	492	310	223	169	62	2	2	0	58	0
U. of Mary Washington	492	ne	143	48	62	0	57	0	5	0
Alabama State U.	494	0	0	0	60	0	0	0	0	60
Pepperdine U.	495	67	109	88	56	0	54	0	2	0
U. South Florida, Saint Petersburg	495	46	0	61	56	0	56	0	0	0
U. Alaska, Southeast	497	0	0	0	55	55	0	0	0	0
U. Louisiana, Monroe	497	2	50	75	55	0	55	0	0	0
Albany State U.	499	78	137	150	54	0	54	0	0	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Niagara U.	499	144	145	78	54	0	54	0	0	0
Stockton U.	499	ne	1	15	54	0	26	0	28	0
Minnesota State U., Mankato	502	654	121	127	52	0	48	0	4	0
U. Tennessee, Chattanooga	502	61	10	35	52	0	52	0	0	0
U. South Carolina, Aiken	504	8	108	0	51	0	51	0	0	0
Savannah State U.	505	157	63	63	50	0	0	0	0	50
St. Bonaventure U.	505	ne	ne	ne	50	0	50	0	0	0
Trinity C., Hartford	505	214	278	159	50	0	46	0	4	0
Pennsylvania State U., Behrend	508	112	98	151	44	0	22	0	22	0
Texas A&M International U.	509	70	12	4	42	0	0	0	38	4
California State U., Channel Islands	510	10	33	57	39	0	39	0	0	0
Kean U.	510	ne	ne	ne	39	0	39	0	0	0
Stephen F. Austin State U.	512	66	94	85	36	0	33	0	3	0
Northern Michigan U.	513	14	26	24	35	0	9	0	26	0
Saginaw Valley State U.	513	51	52	300	35	0	35	0	0	0
U. Texas, Tyler	515	41	33	44	33	0	33	0	0	0
Augusta U.	516	102	43	48	29	0	29	0	0	0
U. Michigan, Flint	516	135	53	40	29	0	21	0	8	0
Dickinson C.	518	108	ne	71	28	0	6	0	6	16
Lincoln U., Jefferson City	519	71	17	71	26	0	26	0	0	0
U. New England	519	20	27	23	26	0	20	6	0	0
U. Texas of the Permian Basin	521	57	103	ne	24	0	0	0	0	24
Midwestern State U.	522	ne	ne	ne	22	0	17	0	5	0
Pittsburg State U.	522	33	21	30	22	0	19	0	3	0
Monmouth U.	524	ne	ne	18	19	0	19	0	0	0
Colorado State U., Pueblo	525	ne	ne	6	18	0	18	0	0	0
California State U., Stanislaus	526	17	17	25	17	0	12	0	5	0
Austin Peay State U.	527	234	309	232	15	0	2	0	13	0

TABLE 47

Higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
St. Cloud State U.	527	33	23	12	15	1	3	0	11	0
U. Illinois, Springfield	529	0	0	12	14	0	14	0	0	0
Hofstra U.	530	62	42	48	10	4	4	0	2	0
Alfred U.	531	9	11	13	7	7	0	0	0	0
Columbus State U.	531	ne	ne	ne	7	0	7	0	0	0
Central State U.	533	37	83	63	6	0	6	0	0	0
Lawrence Technological U.	533	16	56	9	6	0	0	0	6	0
Gallaudet U.	535	136	227	26	5	0	5	0	0	0
U. Detroit Mercy	535	1	11	13	5	0	5	0	0	0
U. South Florida, Sarasota-Manatee	535	0	0	20	5	0	5	0	0	0
SUNY, Buffalo State	538	43	23	19	3	0	0	0	3	0
La Sierra U.	539	13	38	1	1	0	0	0	1	0
All other surveyed institutions	-	113,887	111,488	2,984	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $353,757 thousand imputed for total R&D expenditures in physical sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
All institutions	-	3,384,673	3,472,447	3,691,358	3,789,237	542,725	1,166,743	156,894	1,736,916	185,959
Johns Hopkins U.[a]	1	177,702	229,887	306,572	372,067	91,890	24,462	3,731	222,997	28,987
California Institute of Technology	2	159,408	155,495	156,658	178,896	47,213	26,664	12,299	92,720	0
U. Colorado Boulder	3	67,778	78,424	99,527	106,414	28,088	6,537	0	64,624	7,165
Massachusetts Institute of Technology	4	102,420	96,347	94,635	105,097	31,303	19,258	2,454	38,758	13,324
Michigan State U.	5	138,056	111,792	95,267	100,092	39	7,154	0	92,899	0
Cornell U.	6	83,621	86,823	95,625	96,374	7,341	21,016	1,529	37,180	29,308
U. Rochester	7	84,330	88,080	106,520	94,572	0	4,136	0	90,436	0
U. California, Berkeley	8	90,916	81,410	86,349	84,023	45,722	17,414	0	17,480	3,407
U. Maryland[b]	9	na	na	82,395	81,584	34,719	6,777	175	29,752	10,161
U. Arizona	10	66,693	68,086	74,823	77,135	62,252	8,089	1,330	5,464	0
Stanford U.	11	70,448	63,318	71,817	68,199	3,331	22,802	6,610	32,816	2,640
Princeton U.	12	44,946	53,677	54,879	60,336	17,917	13,611	0	28,224	584
U. Wisconsin-Madison	13	51,405	51,870	52,807	58,512	2,264	19,249	0	17,822	19,177
U. Texas, Austin	14	48,840	48,196	53,535	56,570	4,486	8,614	24,832	18,638	0
Harvard U.	15	52,122	52,414	53,614	55,363	5,805	19,149	0	29,457	952
Pennsylvania State U., University Park and Hershey Medical Center	16	51,848	53,057	56,943	54,776	10,869	10,176	16,762	16,969	0
U. Washington, Seattle	17	47,257	45,871	49,064	52,913	8,434	21,802	1,365	17,789	3,523
U. Illinois, Urbana-Champaign	18	45,778	47,691	48,539	49,164	7,765	21,367	0	20,032	0
U. California, San Diego	19	46,872	43,134	47,019	49,002	0	16,704	0	32,298	0
Northwestern U.	20	46,458	48,305	49,120	46,669	1,731	22,766	12,098	8,508	1,566
Ohio State U.	21	29,488	31,707	35,564	44,079	3,648	23,166	41	17,224	0
U. Chicago	22	46,097	42,683	43,322	43,904	8,148	20,747	4,416	10,586	7
Florida State U.	23	32,743	38,693	35,376	42,211	704	12,958	2,170	26,260	119
U. California, San Francisco	24	36,290	35,467	38,491	41,413	0	41,413	0	0	0
U. Pennsylvania	25	32,675	36,065	38,518	38,206	29	13,345	10,382	14,450	0
U. California, Los Angeles	26	38,863	36,558	39,856	37,430	0	14,839	0	22,591	0
U. California, Santa Barbara	27	34,300	32,011	38,560	36,695	4,210	6,268	11,873	13,661	683

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Michigan, Ann Arbor	28	38,344	36,588	37,944	35,572	3,783	18,164	0	13,625	0
U. Minnesota, Twin Cities	29	28,016	29,565	33,493	32,576	1,162	14,721	0	16,693	0
Columbia U. in the City of New York	30	40,520	27,308	29,085	31,519	6,176	9,611	6,090	9,642	0
SUNY, Stony Brook U.	31	21,025	28,239	32,009	30,902	1,605	9,555	0	19,742	0
U. Notre Dame	32	26,579	26,977	29,077	28,853	0	18,246	0	10,607	0
Yale U.	33	36,023	35,815	33,736	28,840	1,630	10,663	0	16,547	0
U. North Carolina, Chapel Hill	34	21,688	23,430	24,236	27,083	388	15,780	0	8,065	2,850
U. California, Irvine	35	24,639	24,213	27,916	26,725	0	15,738	0	10,987	0
Georgia Institute of Technology	36	22,254	23,459	25,844	22,417	0	15,235	0	7,182	0
Purdue U., West Lafayette	37	19,426	19,253	20,328	21,579	0	12,344	0	9,235	0
Indiana U., Bloomington	38	18,428	19,047	20,230	21,231	383	11,206	0	9,642	0
Texas A&M U., College Station and Health Science Center	39	17,871	18,933	21,954	21,208	898	8,781	1,312	9,751	466
Boston U.	40	18,675	19,197	19,469	20,726	1,553	9,210	0	9,963	0
U. Delaware	41	19,061	19,454	21,923	19,931	886	6,472	8,121	4,452	0
U. Virginia, Charlottesville	42	23,628	17,616	17,967	19,333	2,505	6,608	0	10,220	0
Duke U.	43	14,743	16,332	18,436	19,178	0	8,398	0	10,780	0
U. Hawaii, Manoa	44	16,511	15,075	17,498	19,021	9,306	1,732	0	3,792	4,191
U. Utah	45	20,933	15,844	31,461	19,006	5,919	11,546	0	0	1,541
U. Central Florida	46	21,993	18,490	18,300	18,976	0	1,876	0	17,100	0
U. Iowa	47	18,135	22,483	21,267	18,913	609	3,681	0	14,623	0
New York U.	48	15,340	17,870	19,720	18,606	0	11,679	0	6,927	0
Washington U., Saint Louis	49	16,253	16,350	18,746	18,393	0	8,606	5,181	4,606	0
New Mexico State U.	50	23,577	19,047	18,114	18,373	2,486	3,699	0	1,132	11,056
U. Massachusetts, Amherst	51	13,988	14,703	16,405	18,261	3,241	10,044	0	4,976	0
Iowa State U.	52	11,892	26,683	25,466	17,815	0	8,055	0	9,760	0
U. Pittsburgh, Pittsburgh	53	17,200	17,541	18,857	17,786	717	10,893	0	6,176	0
U. California, Santa Cruz	54	12,626	12,442	15,755	17,723	4,972	7,886	0	4,865	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Catholic U. of America	55	15,676	16,408	16,992	17,261	0	523	0	11,952	4,786
U. California, Davis	56	16,172	14,930	17,554	17,230	0	9,896	0	7,160	174
U. Maryland, Baltimore County	57	12,116	11,959	14,774	17,092	13,426	1,233	133	2,300	0
U. Florida	58	14,618	14,100	15,416	16,445	418	6,769	0	9,258	0
Rice U.	59	17,838	15,712	17,279	16,313	1,204	5,909	0	9,200	0
U. Nebraska, Lincoln	60	16,244	17,422	18,047	15,583	0	6,237	0	9,346	0
Emory U.	61	13,504	14,297	15,695	15,380	0	12,627	0	2,729	24
Vanderbilt U. and Vanderbilt U. Medical Center	62	15,765	14,724	14,537	15,195	0	7,056	0	8,139	0
Washington State U.	63	15,632	16,798	18,436	14,813	152	5,986	276	6,837	1,562
U. California, Riverside	64	14,606	13,554	12,908	14,276	0	7,396	0	6,880	0
Virginia Polytechnic Institute and State U.	65	8,276	10,816	14,250	13,854	30	8,991	0	4,788	45
Georgia State U.	66	12,825	11,050	11,524	13,754	1,515	6,834	0	5,143	262
North Carolina State U.	67	13,484	14,391	13,392	13,657	0	6,645	0	7,012	0
U. Southern California	68	10,069	11,958	12,667	13,605	0	7,570	1,174	4,861	0
Louisiana State U., Baton Rouge	69	10,974	12,376	12,967	13,295	0	3,955	0	9,293	47
Northeastern U.	70	10,798	12,632	12,859	13,194	0	4,811	13	8,026	344
Rutgers, State U. New Jersey, New Brunswick	71	19,984	18,582	17,535	12,991	1,392	2,557	2,203	6,212	627
Arizona State U.	72	11,476	11,911	11,735	12,385	0	5,739	0	6,395	251
U. Tennessee, Knoxville[c]	73	15,858	15,120	16,674	12,121	0	3,170	0	8,951	0
Florida International U.	74	7,903	8,984	9,893	11,642	0	7,623	0	3,976	43
U. Oklahoma, Norman and Health Science Center	75	9,400	10,937	12,491	11,446	0	8,392	0	3,054	0
U. Massachusetts, Lowell	76	8,137	7,204	8,207	11,202	0	1,064	0	10,138	0
Carnegie Mellon U.	77	9,259	9,606	10,233	11,165	0	4,095	283	6,254	533

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Brown U.	78	11,988	12,878	14,103	11,133	0	3,416	0	3,718	3,999
Temple U.	79	11,559	11,036	11,881	10,820	0	5,786	0	3,720	1,314
Montana State U., Bozeman	80	9,898	9,333	9,841	10,794	0	5,606	0	5,188	0
U. Illinois, Chicago	81	8,968	8,196	9,941	10,533	0	4,659	0	5,874	0
U. Alaska, Fairbanks	82	9,114	8,928	9,634	9,919	9,792	57	0	0	70
U. Alabama, Huntsville	83	7,550	10,570	9,213	9,595	8,454	218	0	886	37
Colorado School of Mines	84	7,302	7,698	7,404	9,353	0	2,198	697	5,059	1,399
Jackson State U.	85	6,563	8,265	8,463	9,305	0	7,991	0	1,314	0
U. Texas, Dallas	86	5,487	6,186	7,812	9,295	3,233	3,148	0	2,914	0
Wayne State U.	87	7,920	9,469	11,130	9,101	0	6,426	0	2,469	206
U. Oregon	88	8,894	8,467	8,572	9,034	0	3,937	271	4,826	0
West Virginia U.	89	7,553	9,185	9,683	8,805	0	3,040	0	5,765	0
Kansas State U.	90	7,789	9,103	9,827	8,746	0	2,739	0	6,007	0
U. Southern Mississippi	91	7,360	8,639	9,357	8,527	0	8,520	0	7	0
Naval Postgraduate School	92	5,649	4,641	7,594	8,513	517	234	32	6,178	1,552
U. Texas, Arlington	93	7,040	7,156	7,459	8,422	0	1,807	0	6,615	0
New Jersey Institute of Technology	94	6,908	6,750	8,044	8,354	5,873	939	0	1,542	0
U. Connecticut	95	6,919	6,968	6,696	8,124	0	3,515	0	4,609	0
U. Texas M. D. Anderson Cancer Center	96	5,510	6,607	7,922	8,114	0	0	0	8,114	0
U. Mississippi	97	8,502	7,140	9,706	7,993	0	2,225	0	5,768	0
Colorado State U., Fort Collins	98	7,492	9,920	10,106	7,884	0	5,324	71	2,101	388
Rochester Institute of Technology	99	8,391	7,630	8,077	7,787	0	382	0	2,160	5,245
Dartmouth C. and Dartmouth Hitchcock Medical Center	100	6,103	5,824	6,303	7,751	0	3,074	0	4,677	0
U. Missouri, Columbia	101	12,387	12,176	6,686	7,654	0	5,168	0	2,486	0
SUNY, Binghamton U.	102	5,842	5,684	6,111	7,642	0	5,324	0	2,318	0
Georgetown U.	103	4,416	4,582	5,133	7,424	0	2,661	0	4,763	0
Brandeis U.	104	8,029	7,389	7,777	7,218	0	1,679	0	5,523	16

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Case Western Reserve U.	105	8,625	4,669	8,213	7,203	270	2,291	3,032	1,610	0
SUNY, U. Buffalo	106	8,040	8,747	7,714	7,195	0	4,783	0	2,412	0
U. New Mexico	107	7,796	7,889	6,320	7,146	1,015	2,243	35	3,846	7
Syracuse U.	108	7,932	7,255	9,127	7,140	0	1,370	0	5,770	0
Boston C.	109	5,339	6,275	7,406	7,098	0	5,627	0	1,471	0
Xavier U. Louisiana	110	7,956	6,697	5,797	7,077	0	7,077	0	0	0
CUNY, City C.	111	8,425	7,611	6,681	7,007	0	3,803	0	2,626	578
Auburn U., Auburn	112	3,886	4,937	6,107	6,866	0	1,737	51	5,012	66
U. Kentucky	113	5,555	4,929	6,607	6,785	0	3,669	0	3,116	0
U. Kansas	114	10,290	6,763	7,110	6,488	555	3,664	286	1,983	0
U. Houston	115	6,153	5,978	6,147	6,336	118	2,981	194	2,775	268
Clemson U.	116	6,059	6,044	6,692	6,157	0	2,337	0	3,820	0
Tufts U.	117	6,229	43,589	2,102	6,118	0	4,517	0	1,587	14
U. Montana, Missoula	118	2,534	5,513	5,718	5,428	0	1,783	0	77	3,568
George Washington U.	119	4,571	4,819	5,610	5,366	0	1,769	0	3,597	0
U. South Florida, Tampa	120	6,535	6,653	5,648	5,306	0	2,520	0	2,114	672
U. Toledo	121	3,446	4,629	4,915	5,136	532	1,367	0	3,237	0
U. Wisconsin-Milwaukee	122	10,217	10,604	7,884	5,010	0	750	0	4,260	0
Air Force Institute of Technology	123	3,505	4,241	4,457	4,973	0	0	0	4,973	0
U. California, Merced	124	4,689	3,952	4,304	4,891	0	2,041	731	2,119	0
U. Georgia	125	4,681	4,403	6,362	4,815	395	3,628	0	792	0
California State U., Northridge	126	3,219	2,579	3,063	4,750	333	612	0	2,373	1,432
U. Alabama, Tuscaloosa	127	4,398	5,116	4,785	4,720	4	2,148	0	2,568	0
U. Nevada, Reno	128	4,331	5,225	4,815	4,702	477	1,534	60	2,590	41
U. Texas, San Antonio	128	5,174	3,733	4,195	4,702	0	1,685	0	3,017	0
George Mason U.	130	3,329	4,515	4,738	4,656	3,013	125	685	700	133
Old Dominion U.	131	5,873	5,402	5,260	4,601	0	1,091	0	3,510	0
Missouri U. of Science and Technology	132	2,154	2,963	2,082	4,591	0	1,833	0	2,758	0
Oregon State U.	133	2,929	3,615	4,888	4,523	69	2,560	547	1,304	43
U. Arkansas, Fayetteville	134	3,749	4,009	4,313	4,452	0	2,160	0	2,292	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
William & Mary	135	4,698	4,192	4,249	4,428	0	379	0	4,049	0
Howard U.	136	3,400	3,519	4,548	4,381	0	3,769	0	612	0
U. Texas, El Paso	137	4,782	4,757	4,384	4,257	0	3,233	0	1,024	0
California State U., Los Angeles	138	3,802	4,506	4,917	4,255	0	3,633	0	622	0
U. Akron	139	3,480	3,213	3,992	4,238	0	4,238	0	0	0
Texas Tech U.	140	2,726	3,838	4,426	4,217	0	2,780	222	1,215	0
Rensselaer Polytechnic Institute	141	5,661	5,774	4,304	4,184	0	3,033	0	1,151	0
U. Miami	142	5,159	4,644	4,645	4,172	0	1,011	0	3,161	0
Brigham Young U., Provo	143	3,806	4,365	4,833	4,133	0	2,457	0	1,676	0
U. Nevada, Las Vegas	144	6,856	6,515	4,521	4,073	263	2,828	0	982	0
U. Cincinnati	145	5,134	4,842	4,724	4,041	0	2,005	0	2,036	0
Utah State U.	146	2,698	3,175	4,133	3,982	0	1,636	0	1,661	685
U. Alabama, Birmingham	147	4,105	6,064	4,929	3,934	0	925	795	2,214	0
SUNY, U. Albany	148	1,588	2,983	3,545	3,917	0	3,384	0	533	0
Kent State U.	149	3,489	3,249	3,062	3,715	94	968	692	1,617	344
Northern Illinois U.	150	3,317	3,785	4,280	3,713	0	1,146	0	2,567	0
CUNY, Hunter C.	151	2,071	3,122	3,024	3,552	0	2,579	0	973	0
Ohio U.	152	2,847	2,570	2,605	3,467	0	582	0	2,885	0
U. Puerto Rico, Rio Piedras	153	4,907	2,714	3,804	3,427	0	2,360	0	1,067	0
American U.	154	1,578	2,506	2,922	3,401	0	196	0	3,205	0
U. Denver	155	3,066	2,985	2,869	3,373	143	2,435	0	795	0
Tulane U.	156	4,373	3,449	3,533	3,343	0	1,372	0	1,971	0
U. New Hampshire	157	1,630	2,857	1,859	3,335	0	818	234	2,283	0
Northern Arizona U.	158	1,716	2,490	2,688	3,147	2,190	324	122	352	159
Hampton U.	159	4,615	4,129	4,044	3,142	0	0	0	3,142	0
CUNY, Advanced Science Research Center	160	830	525	2,115	3,018	0	922	0	2,096	0
San Diego State U.	161	2,055	3,166	3,377	2,992	255	2,297	0	440	0
North Carolina Central U.	162	4,012	3,447	2,729	2,888	0	54	0	2,834	0
Rockefeller U.	163	4,151	3,856	2,637	2,882	0	2,299	0	583	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. North Carolina, Charlotte	164	2,532	2,320	2,977	2,878	0	977	0	1,901	0
Oklahoma State U., Stillwater	165	2,416	2,238	3,135	2,870	0	1,513	0	1,357	0
Southern Methodist U.	166	2,884	2,790	2,499	2,855	0	921	0	1,934	0
North Dakota State U.	167	4,376	3,369	3,546	2,853	0	1,349	1,307	197	0
Illinois Institute of Technology	168	3,642	3,492	3,253	2,734	0	296	289	2,125	24
U.S. Air Force Academy	169	2,210	295	2,933	2,714	0	0	0	2,714	0
U. Vermont	170	963	1,683	1,925	2,710	0	1,327	0	1,383	0
Boise State U.	171	468	2,909	2,420	2,678	130	509	1,945	94	0
U. North Carolina, Greensboro	172	2,995	2,895	3,019	2,612	0	1,494	0	5	1,113
U. Rhode Island	173	2,677	2,504	2,269	2,579	0	1,726	0	79	774
California State U., Long Beach	174	3,254	3,830	4,062	2,502	174	2,328	0	0	0
U. North Texas, Denton	175	2,644	2,431	2,588	2,329	0	1,107	0	1,222	0
Mississippi State U.	176	3,300	4,459	3,630	2,267	14	1,111	4	1,138	0
U. South Carolina, Columbia	177	7,476	3,554	3,103	2,264	0	0	0	2,264	0
Haverford C.	178	426	1,047	1,862	2,259	239	187	1,784	49	0
U. Massachusetts, Boston	179	1,141	1,237	1,745	2,239	0	1,706	0	533	0
U. Texas Rio Grande Valley	180	2,055	1,847	1,865	2,215	560	1,061	0	594	0
Virginia Commonwealth U.	181	2,307	2,364	2,425	2,194	0	1,293	0	901	0
Lehigh U.	182	2,924	3,233	2,157	2,166	0	1,298	0	868	0
Baylor U.	183	1,960	2,006	2,033	2,110	29	945	0	1,136	0
Florida Institute of Technology	184	1,962	1,362	1,268	2,109	762	154	0	1,193	0
U.S. Naval Academy	185	2,476	1,948	2,654	2,096	0	903	0	1,193	0
Central Michigan U.	186	1,248	1,702	2,318	2,044	101	0	0	1,943	0
San Jose State U.	187	1,242	1,415	1,765	2,035	0	1,420	0	615	0
CUNY, Lehman C.	188	1,907	2,181	1,495	2,021	0	1,612	0	409	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. South Dakota	189	1,122	1,004	2,205	1,968	0	992	0	976	0
Portland State U.	190	2,833	2,189	2,356	1,937	0	1,467	126	344	0
U. Maine	191	914	1,980	2,654	1,868	0	220	0	1,648	0
Embry-Riddle Aeronautical U.	192	776	1,320	1,623	1,859	0	0	0	902	957
Oakland U.	193	1,644	1,510	1,679	1,852	0	966	0	886	0
Texas State U.	194	2,820	2,675	2,235	1,798	0	976	0	734	88
Delaware State U.	195	2,868	2,587	1,615	1,683 i	0 i	476 i	0 i	1,207 i	0 i
California State U., San Marcos	196	203	1,106	901	1,667	0	61	0	841	765
Villanova U.	197	830	951	1,141	1,658	518	834	0	306	0
Chapman U.	198	1,068	699	824	1,655	0	362	0	71	1,222
Marquette U.	199	1,244	1,486	1,305	1,649	0	1,424	0	225	0
Stevens Institute of Technology	200	1,304	1,348	1,960	1,648	0	0	0	1,648	0
Worcester Polytechnic Institute	201	2,049	2,140	2,006	1,603	0	1,021	0	582	0
Drexel U.	202	1,520	2,362	1,611	1,582	0	305	1,277	0	0
Wesleyan U.	203	1,844	1,960	1,784	1,540	262	487	0	791	0
Morehouse C.	204	2,136	2,740	1,704	1,517	0	177	0	216	1,124
Wake Forest U.	205	2,009	1,667	1,741	1,499	0	396	0	1,103	0
California State U., San Bernardino	206	992	1,260	1,153	1,448	25	3	872	0	548
U. Louisville	207	1,011	1,034	1,827	1,446	127	1,012	192	57	58
Rutgers, State U. New Jersey, Newark	208	1,489	1,674	1,444	1,436	0	1,175	0	261	0
Clark Atlanta U.	209	1,425	960	1,135	1,422	0	760	0	662	0
California State Polytechnic U., Pomona	210	687	1,388	673	1,393	1,196	108	0	89	0
South Dakota School of Mines and Technology	211	1,363	1,542	1,583	1,384	0	691	0	693	0
Indiana U.-Purdue U., Indianapolis	212	981	1,240	1,186	1,374	0	919	0	455	0
Wright State U.	213	1,921	1,898	1,362	1,369	0	221	0	1,014	134
Florida A&M U.	214	3,244	5,882	3,358	1,366	0	39	0	1,327	0
New Mexico Institute of Mining and Technology	215	1,283	1,442	1,928	1,348	0	287	0	1,061	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Bowling Green State U.	216	1,477	1,222	1,238	1,331	0	741	0	590	0
Florida Atlantic U.	217	2,039	1,494	1,253	1,317	0	836	0	481	0
Saint Louis U.	218	566	919	944	1,302	0	1,235	0	67	0
Michigan Technological U.	219	560	701	728	1,282	0	642	0	640	0
San Francisco State U.	220	1,817	1,250	1,223	1,274 i	3 i	178 i	95 i	998 i	0 i
Southern Illinois U., Carbondale	221	1,878	1,707	1,020	1,270	0	934	0	243	93
Texas A&M U.-Corpus Christi	222	311	198	1,062	1,250	0	107	0	0	1,143
U. Maryland, Eastern Shore	223	0	1,305	1,278	1,243	0	7	0	0	1,236
U. Missouri, Saint Louis	224	1,391	1,615	1,896	1,229	98	1,131	0	0	0
Troy U.	225	ne	ne	ne	1,216	0	0	1,216	0	0
U. Wyoming	226	2,840	2,560	1,750	1,206	0	554	0	652	0
California Polytechnic State U., San Luis Obispo	227	737	824	1,124	1,202	0	265	0	937	0
U. Colorado Denver and Anschutz Medical Campus	228	842	767	1,107	1,167	0	819	0	348	0
North Carolina Agricultural and Technical State U.	229	1,036	1,317	1,517	1,163	0	114	0	1,049	0
East Carolina U.	230	201	633	821	1,135	0	830	0	305	0
U. Missouri, Kansas City	231	1,327	1,340	1,407	1,102	103	273	0	726	0
U. Memphis	232	673	895	1,039	1,100	80	667	0	353	0
Western Kentucky U.	233	787	911	1,013	1,072	0	783	0	289	0
South Dakota State U.	234	988	1,153	1,266	1,058	0	1,026	0	32	0
CUNY, Queens C.	235	1,044	1,094	1,141	1,041	0	870	0	171	0
California State U., Fullerton	236	904	1,133	897	1,003	607	0	0	396	0
St. Edward's U.	237	1,310	445	400	994	164	735	0	55	40
Western Washington U.	238	581	734	820	989	246	743	0	0	0
South Carolina State U.	239	1,552	1,621 i	930	965 i	174 i	0 i	0 i	182 i	609 i

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Puerto Rico, Humacao	240	ne	647	494	922	201	192	529	0	0
Tennessee Technological U.	241	856	1,092	1,042	914	0	426	0	488	0
Wichita State U.	242	373	434	851	912	0	756	0	0	156
U. of the Virgin Islands	243	0	0	0	908	0	159	0	749	0
U. Puerto Rico, Mayaguez	244	1,532	1,136	832	904	0	612	0	292	0
Amherst C.	245	629	716	1,124	892	0	289	0	603	0
Idaho State U.	246	2,303	2,776	2,191	889	0	429	66	394	0
California State U., Fresno	247	664	797	823	868	0	616	0	252	0
U. Dayton	248	1,582	1,304	1,175	849	0	0	421	428	0
CUNY, Brooklyn C.	249	1,601	1,077	812 i	845	0	727	0	118	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	250	944	803	723	844	0	335	0	509	0
U. San Diego	251	514	575	928	837	0	341	0	496	0
U. Arkansas, Little Rock	252	149	603	616	828	0	828	0	0	0
U.S. Military Academy	253	448	120	35	814	13	419	0	269	113
Creighton U.	254	887 i	609 i	878 i	806 i	0 i	277 i	0 i	529 i	0 i
Barnard C.	255	680	516	928	805	529	276	0	0	0
U. Northern Iowa	256	473	498	1,016	796	0	710	0	86	0
U. New Orleans	257	1,157	1,124	1,052	782	0	231	0	551	0
U. Idaho	258	1,965	1,153	1,249	771	560	51	0	160	0
CUNY, C. Staten Island	259	546	1,073 i	1,310	770	0	228	0	542	0
Clarkson U.	260	489	539	652	767	0	523	0	244	0
Arkansas State U., Jonesboro	261	902	440	787	753	0	720	0	33	0
Clark U.	262	315	319	384	747	0	161	0	586	0
Texas A&M U.-Commerce	263	412	858	667	746	0	58	0	688	0
U. North Dakota	264	2,031	638	977	739	0	610	0	129	0
Norfolk State U.	265	775	800	819	726	0	76	0	650	0
Cleveland State U.	266	116	283	488	716	0	307	0	409	0
Spelman C.	267	184	620	595	713	0	713	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All physical sciences		Astronomy and astrophysics		Chemistry		Materials science		Physics		Physical sciences nec	
U. North Carolina, Asheville	268	483		273		418		687		17		146		0		0		524	
Duquesne U.	269	658		776		725		664		0		621		0		43		0	
Dillard U.	270	703		352		122		662		0		16		0		646		0	
U. Central Oklahoma	271	332		606		657		651	i	0	i	139	i	0	i	512	i	0	i
Hope C.	272	680		607		824		648		0		204		0		444		0	
SUNY, Geneseo	273	620		592		663		624		0		82		0		542		0	
Loyola U., Chicago	274	514		726		913		610		0		610		0		0		0	
Georgia Southern U.	275	141		173		164		607		26		534		0		47		0	
Trinity U.	276	237		708		495		604		0		543		0		61		0	
Southern Connecticut State U.	277	534		509		246		579		579		0		0		0		0	
C. Charleston	278	1,027		640		787		573		155		88		258		72		0	
Christopher Newport U.	279	402		353		534		571		0		53		0		518		0	
Kennesaw State U.	280	403		366		721		558		0		393		0		165		0	
New Mexico Highlands U.	281	722		675		ne		541		0		541		0		0		0	
James Madison U.	282	429		320		653		531		37		168		0		182		144	
Texas Southern U.	283	149		139		179		527		0		527		0		0		0	
Northern Kentucky U.	284	287		284		448		514		60		251		0		203		0	
Illinois State U.	285	506		513		690		511		0		291		0		220		0	
CUNY, York C.	286	ne		ne		862		510		0		329		0		181		0	
Winston-Salem State U.	287	309		255		320		496		0		410		0		86		0	
Lewis and Clark C.	288	173		111		153		494		0		53		0		441		0	
Pomona C.	289	198		277		250		490		278		212		0		0		0	
U. Central Arkansas	289	527		521		576		490		0		414		0		76		0	
Prairie View A&M U.	291	751		411		407		489		0		392		0		97		0	
Alabama A&M U.	292	1,289	i	997	i	705	i	481	i	0	i	222	i	0	i	259	i	0	i
Mount Holyoke C.	293	1,276		1,164		894		471		360		111		0		0		0	
Southern U. and A&M C., Baton Rouge	294	1,732		1,132		646		466		0		39		0		427		0	
U. Wisconsin-Eau Claire	295	601		436		504		456		14		355		87		0		0	
Santa Clara U.	296	428		736		394		445		0		315		0		130		0	

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
California State U., East Bay	297	ne	ne	ne	444	0	164	0	221	59
CUNY, Graduate Center	298	0	0	330	435	0	0	0	435	0
Fort Lewis C.	298	ne	ne	0	435	0	9	426	0	0
U. West Florida	300	353	380	373	423	0	0	0	0	423
U. Arkansas, Pine Bluff	301	250	315	352	418	0	418	0	0	0
Sam Houston State U.	302	285	262	420	414	0	342	0	72	0
Middle Tennessee State U.	303	621	271	142	412	227	185	0	0	0
Grinnell C.	304	121	127	44	410	58	352	0	0	0
Miami U.	305	668	607	167	408	0	292	0	116	0
Rowan U.	306	296	483	887	407	0	213	0	194	0
CUNY, John Jay C. of Criminal Justice	307	370	249	222	405	0	167	0	238	0
Seton Hall U.	308	0	0	0	401	0	401	0	0	0
California State U., Dominguez Hills	309	523	626	635	393	0	390	0	3	0
Morgan State U.	309	285	116	30	393	0	175	0	218	0
Bryn Mawr C.	311	345	464	471	388	0	130	0	55	203
Middlebury C.	311	518	376	410	388	150	238	0	0	0
Texas Christian U.	311	497	260	341	388	0	213	0	175	0
Missouri State U.	314	149	150	336	380	71	20	0	289	0
U. Houston-Clear Lake	315	223	442	476	377	0	0	0	0	377
U. North Florida	316	168	240	348	374	0	286	0	88	0
Calvin U.	317	510	474	388	372 i	0 i	254 i	0 i	118 i	0 i
Providence C.	317	100	94	71	372	20	352	0	0	0
Swarthmore C.	319	530	642	550	366	72	155	0	139	0
U. South Alabama	320	270	239	355	363	0	338	0	25	0
Tougaloo C.	321	80	848	849	361	0	280	0	81	0
Furman U.	322	746	527	558	358	0	357	0	1	0
Grambling State U.	323	542	518	476	356	0	349	0	7	0
Rhode Island C.	323	118	100	120	356	0	0	0	179	177
C. New Jersey	325	212	302	ne	354	0	48	0	306	0
Franklin and Marshall C.	326	420	737	279	350	48	254	0	48	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Grand Valley State U.	326	419	597	246	350	0	341	0	9	0
Florida Gulf Coast U.	328	0	0	116	344	140	204	0	0	0
Occidental C.	329	149	274	177	340	0	140	0	70	130
U. North Carolina, Wilmington	330	483	406	512	336	0	169	0	110	57
Youngstown State U.	331	375	59	105	327	141	166	0	20	0
St. John's U., New York	332	118	142	221	325	0	325	0	0	0
Louisiana Tech U.	333	661	696	403	323	0	71	0	252	0
West Virginia State U.	333	204	353	150	323	0	323	0	0	0
Bates C.	335	393	433	340	318	39	185	0	94	0
U. of the Sciences Philadelphia	335	303	268	498	318	0	293	0	25	0
Ball State U.	337	262	361	578	315	0	315	0	0	0
East Tennessee State U.	337	177	281	249	315	100	27	0	188	0
U. of the Pacific	339	164	247	422	307	108	144	0	55	0
Kettering U.	340	494	410	116	305	0	64	0	241	0
U. Minnesota, Duluth	341	444	442	498	303	0	286	0	17	0
Ithaca C.	342	ne	ne	ne	301	231	70	0	0	0
Johnson C. Smith U.	343	0	228	66	300	0	300	0	0	0
Colby C.	344	318	427	297	299	0	225	0	74	0
Lafayette C.	344	243	298	333	299	0	94	0	205	0
Harvey Mudd C.	346	223	604	160	297	0	201	0	96	0
CUNY, Baruch C.	347	228	241	330	296	0	21	0	275	0
Fordham U.	348	113	0	107	294	0	294	0	0	0
U. Richmond	349	714	349	187	286	0	188	0	98	0
Yeshiva U.	349	0	0	0	286	0	0	0	286	0
U. Massachusetts, Dartmouth	351	205	197	216	275	0	200	0	75	0
Albion C.	352	210	114	180	272	13	92	0	50	117
Bowie State U.	352	111	293	246	272	0	175	0	0	97
Indiana U. Pennsylvania	354	305	133	128	268	0	93	0	175	0
Smith C.	355	165	334	389	264	2	167	0	95	0
Montclair State U.	356	167	242	121	263	39	224	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
Oberlin C.	357	730	486	422	262	0	71	0	191	0
Fayetteville State U.	358	616	300	200	260	0	212	0	48	0
Claflin U.	359	484	600	508	258	0	208	0	50	0
U. Wisconsin-River Falls	359	435	345	ne	258	0	84	0	174	0
Central Washington U.	361	231	189	182	255	0	152	0	103	0
Williams C.	362	356	382	263	253 i	71 i	0 i	0 i	182 i	0 i
Wellesley C.	363	868	1,194	1,109	251	0	251	0	0	0
Skidmore C.	364	74	128	150	250	0	209	0	41	0
Carleton C.	365	223	357	210	248	22	142	0	84	0
Colgate U.	365	180	389	278	248	3	226	0	19	0
Whitman C.	367	ne	ne	347	241	0	164	0	77	0
Bucknell U.	368	112 i	108	247	237 i	0 i	77 i	0 i	160 i	0 i
Southern Illinois U., Edwardsville	369	293	516	390	231	0	231	0	0	0
Winthrop U.	369	52	199	256	231	0	64	167	0	0
Salish Kootenai C.	371	665	869	553	222	0	222	0	0	0
Union C., Schenectady	371	117	210	522	222	120	21	0	81	0
U. Hawaii, Hilo	373	366	466	128	214	0	178	0	36	0
Fisk U.	374	2,725	197	0	212	0	0	0	200	12
U. Louisiana, Lafayette	375	109	273	336	208	0	158	6	44	0
DePaul U.	376	97	111	112	207	0	2	0	205	0
U. Wisconsin-La Crosse	377	148	210	113	205	0	54	0	151	0
CUNY, New York City C. of Technology	378	ne	28	315	200	0	0	0	200	0
California State U., Sacramento	379	168	170	199	196	0	44	0	152	0
Kenyon C.	380	ne	263	292	194	0	0	0	194	0
Andrews U.	381	ne	ne	183	191	191	0	0	0	0
Towson U.	382	99	710	564	187	17	120	0	50	0
U. Puerto Rico, Cayey	383	213	45	140	185	0	137	0	48	0
Bowdoin C.	384	225	285	177	184	0	43	0	125	16
SUNY, Oswego	385	407	351	266	182	0	182	0	0	0
CUNY, Medgar Evers C.	386	281	324	308	179	50	129	0	0	0
Southeastern Louisiana U.	386	114	108	35	179	0	135	0	44	0
U. of the Incarnate Word	388	ne	568	372	176	0	176	0	0	0

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Maryland Center for Environmental Science	389	16	228	80	174	0	102	0	72	0
U. Puget Sound	389	118	ne	ne	174	0	124	0	50	0
Appalachian State U.	391	472	303	211	172	0	74	0	98	0
Framingham State U.	392	0	17	ne	169	0	169	0	0	0
Purdue U., Northwest	393	212	284	111	168	0	168	0	0	0
Tuskegee U.	394	383	383	163	166	0	134	0	32	0
West Texas A&M U.	394	11	2	75	166	0	166	0	0	0
Indiana State U.	396	148	168	155	160	0	39	0	121	0
Vassar C.	396	234	773 i	168	160	0	13	0	147	0
Tennessee State U.	398	453	318	112	159	120	39	0	0	0
Davidson C.	399	345	215	232	157	0	112	0	45	0
U. Washington, Bothell	400	0	0	215	156	0	0	0	156	0
Murray State U.	401	41	157	328	155	0	155	0	0	0
U. Alaska, Anchorage	402	22	17	16	154	95	59	0	0	0
California State U., Chico	403	4	86	166	150	0	6	0	144	0
Reed C.	403	0	25	81	150	0	109	0	41	0
Macalester C.	405	335	267	322	149	0	118	0	31	0
Benedict C.	406	314	518	364	146	0	146	0	0	0
Claremont McKenna C.	407	50	39	140	144	0	85	0	59	0
U. Nebraska, Kearney	408	158	158	248	142	15	118	0	9	0
U. New Haven	408	0	26	300	142	0	0	142	0	0
Loyola Marymount U.	410	23	131	132	140	0	140	0	0	0
SUNY, C. of Environmental Science and Forestry	411	175	32	52	136	71	47	0	0	18
Hobart and William Smith Colleges	412	205	ne	186	132	0	0	0	82	50
C. Wooster	413	185	436	251	126	0	91	0	35	0
Eastern Michigan U.	413	72	155	185	126	19	1	75	31	0
Purdue U., Fort Wayne	415	43	57	101	123	0	123	0	0	0
Sonoma State U.	415	ne	ne	ne	123	0	8	0	0	115

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All physical sciences		Astronomy and astrophysics		Chemistry		Materials science		Physics		Physical sciences nec	
Western Carolina U.	417	93		144		172		118		0		118		0		0		0	
U. Tulsa	418	656		364		202		114		0		43		0		71		0	
Connecticut C.	419	308		249		384		113		0		113		0		0		0	
SUNY, C. Plattsburgh	420	129		333		259		110		0		0		0		110		0	
Gettysburg C.	421	42		333		206		109		0		0		0		41		68	
Langston U.	421	36	i	33	i	29		109		0		0		0		0		109	
Texas A&M U.-Kingsville	423	68		28		129		108		0		108		0		0		0	
U. Wisconsin-Oshkosh	424	95	i	99	i	103	i	107	i	17	i	42	i	0	i	48	i	0	i
Fairfield U.	425	292		95		442		100		0		41		0		42		17	
Marshall U.	426	234		260		462		99		0		99		0		0		0	
Roger Williams U.	427	451		187		139		98		0		0		0		0		98	
Montana Technological U.	428	217		77		54		97		0		97		0		0		0	
Suffolk U.	428	118	i	ne		ne		97		0		97		0		0		0	
Weber State U.	430	ne		ne		ne		95		0		74		0		21		0	
Black Hills State U.	431	444		395		371		91		0		0		0		91		0	
U. of St. Thomas (MN)	432	89		87		61		90		0		49		0		41		0	
Fort Hays State U.	433	ne		ne		52		85		0		64		0		21		0	
U. Wisconsin-Stevens Point	433	49	i	61	i	73	i	85		0		42		0		43		0	
New Jersey City U.	435	1,185		2,105		55		82		0		82		0		0		0	
Humboldt State U.	436	52		69		48		76		0		0		0		76		0	
Mercyhurst U.	437	35	i	ne		71	i	73	i	0	i	25	i	0	i	48	i	0	i
West Chester U. Pennsylvania	437	130		36		84		73		38		35		0		0		0	
Fort Valley State U.	439	102		88		104		72		0		72		0		0		0	
U. Wisconsin-Green Bay	439	62	i	43	i	66	i	72	i	0	i	33	i	0	i	39	i	0	i
Manhattan C.	441	ne		ne		55		71		0		71		0		0		0	
U. Colorado Colorado Springs	442	78		105		68		69		0		0		0		22		47	
Eastern Washington U.	443	106		212		152		66		0		0		0		66		0	
Northeastern Illinois U.	443	75		88		84		66		0		0		0		0		66	
Wheaton C., Wheaton	443	10		23		74		66		0		0		0		66		0	

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All physical sciences		Astronomy and astrophysics		Chemistry		Materials science		Physics		Physical sciences nec	
Willamette U.	443	67		245		194		66		0		62		0		4		0	
Doane U.	447	ne		166		60		62	i	0	i	62	i	0	i	0	i	0	i
Eastern Kentucky U.	448	251		62		0		61		0		26		0		35		0	
Alabama State U.	449	0		0		0		60		0		0		0		0		60	
Biola U.	449	53	i	55	i	58	i	60	i	0	i	21	i	0	i	39	i	0	i
Central Connecticut State U.	449	16		ne		78		60		0		60		0		0		0	
Western Illinois U.	449	3		0		36		60		0		21		0		39		0	
California Lutheran U.	453	ne		ne		36		59		0		59		0		0		0	
Seattle U.	454	105		137		50		58		0		0		0		58		0	
U. South Florida, Saint Petersburg	455	46		0		61		56		0		56		0		0		0	
U. Louisiana, Monroe	456	0		26		67		55		0		55		0		0		0	
Albany State U.	457	78		137		150		54		0		54		0		0		0	
U. of Mary Washington	457	ne		4		48		54		0		49		0		5		0	
Keene State C.	459	0		ne		52		53		0		53		0		0		0	
Lipscomb U.	460	ne		ne		ne		52	i	0	i	17	i	0	i	35	i	0	i
Long Island U.	461	77		60		171		51		0		0		0		51		0	
Savannah State U.	462	140		59		63		50		0		0		0		0		50	
Texas Woman's U.	463	8		7		0		49		49		0		0		0		0	
U. Baltimore	464	0		36		34		45		0		0		0		0		45	
Saint Michael's C.	465	101		127		101		42		0		0		0		42		0	
SUNY, C. Brockport	466	0		0		6		41		0		39		0		2		0	
St. Bonaventure U.	467	ne		ne		ne		38		0		38		0		0		0	
Texas A&M International U.	467	43		1		0		38		0		0		0		38		0	
U. Wisconsin-Platteville	469	40	i	ne		36	i	36	i	0	i	36	i	0	i	0	i	0	i
Pennsylvania State U., Behrend	470	54		30		33		31		0		16		0		15		0	
U. Alaska, Southeast	471	0		0		0		30		30		0		0		0		0	
California State U., Bakersfield	472	0		0		313		29		0		29		0		0		0	
Pacific U.	472	731		220		283		29		8		0		0		21		0	
Lincoln U., Jefferson City	474	71		17		71		26		0		26		0		0		0	

TABLE 48

Federally financed higher education R&D expenditures in the physical sciences, ranked by all FY 2020 physical sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All physical sciences	Astronomy and astrophysics	Chemistry	Materials science	Physics	Physical sciences nec
U. Michigan, Dearborn	474	166	64	107	26	0	0	0	0	26
U. Ana G. Mendez, Gurabo	476	0	144	29	25	0	25	0	0	0
Pittsburg State U.	477	33	21	30	22	0	19	0	3	0
Saginaw Valley State U.	478	21	30	294	21	0	21	0	0	0
Salisbury U.	478	64	42	335	21	0	21	0	0	0
C. of Saint Benedict	480	16	22	21 i	20 i	0 i	20 i	0 i	0 i	0 i
Lamar U.	480	78	23	101	20	0	20	0	0	0
U. Northern Colorado	482	26	26	20	19	19	0	0	0	0
Dickinson C.	483	78	ne	39	16	0	0	0	0	16
Colorado C.	484	266	60	14	15	0	0	0	15	0
Austin Peay State U.	485	190	271	207	13	0	0	0	13	0
St. Olaf C.	485	105	106	60	13	0	6	0	7	0
Azusa Pacific U.	487	40	44	28	12	0	12	0	0	0
U. Illinois, Springfield	487	0	0	12	12	0	12	0	0	0
U. South Carolina, Aiken	489	8	0	0	8	0	8	0	0	0
Alfred U.	490	9	11	13	7	7	0	0	0	0
Central State U.	491	37	83	63	6	0	6	0	0	0
Lawrence Technological U.	491	16	56	0	6	0	0	0	6	0
Trinity C., Hartford	493	166	129	92	5	0	5	0	0	0
Hofstra U.	494	38	24	38	4	4	0	0	0	0
Hamilton C.	495	5	3	12	3	0	0	0	3	0
St. Cloud State U.	495	13	1	2	3	0	0	0	3	0
Minnesota State U., Mankato	497	38	74	94	2	0	0	0	2	0
SUNY, Buffalo State	497	43	23	17	2	0	0	0	2	0
Bradley U.	499	36	45	243	1	0	1	0	0	0
All other surveyed institutions	-	89,682	86,096	2,755	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $341,894 thousand in federally financed R&D expenditures in physical sciences in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	1,791,311	1,865,955	1,965,712	1,926,772	1,097,830	1,129,872	1,182,460	1,166,743
U. California, San Francisco	1	62,673	62,661	65,572	68,745	36,290	35,467	38,487	41,413
U. Houston	2	21,216	25,126	34,730	40,835	2,457	2,511	2,298	2,981
California Institute of Technology	3	51,531	46,180	42,498	40,638	34,064	30,824	28,469	26,664
U. California, Berkeley	4	31,246	32,164	30,743	36,326	15,755	16,256	15,560	17,414
Northwestern U.	5	38,954	39,150	40,651	35,130	24,200	23,691	25,466	22,766
U. Illinois, Urbana-Champaign	6	28,988	31,819	35,411	34,642	18,268	19,818	21,926	21,367
Harvard U.	7	31,204	29,444	34,683	33,675	20,957	20,642	20,722	19,149
Massachusetts Institute of Technology	8	26,165	31,921	31,179	32,375	15,292	20,339	18,377	19,258
U. Wisconsin-Madison	9	23,685	24,620	26,369	31,441	14,400	15,032	17,502	19,249
U. Michigan, Ann Arbor	10	27,654	29,285	29,977	31,361	18,091	17,947	19,168	18,164
U. Notre Dame	11	26,177	26,254	28,342	29,216	16,340	16,038	17,970	18,246
Ohio State U.	12	14,696	15,804	18,579	28,972	12,169	12,628	14,421	23,166
U. California, San Diego	13	28,237	22,362	32,067	27,429	22,566	19,106	21,472	16,704
Cornell U.	14	25,643	25,958	26,542	27,423	19,658	15,966	19,679	21,016
Johns Hopkins U.[a]	15	23,404 i	23,237 i	24,180 i	25,946 i	22,193	21,621	22,678	24,462
Stanford U.	16	26,834	22,807	25,306	25,478	23,436	19,329	22,382	22,802
Princeton U.	17	18,701	21,060	22,317	25,095	9,306	10,722	11,066	13,611
U. Chicago	18	24,093	23,476	23,963	24,631	18,605	18,284	19,011	20,747
Texas A&M U., College Station and Health Science Center	19	26,392	24,441	24,066	24,507	7,369	6,994	7,711	8,781
U. Washington, Seattle	20	22,484	21,246	22,113	24,008	19,125	17,773	19,183	21,802
Florida State U.	21	21,256	22,901	20,708	23,225	9,591	12,016	11,289	12,958
Purdue U., West Lafayette	22	21,437	22,723	22,763	22,953	11,275	10,704	11,830	12,344
U. North Carolina, Chapel Hill	23	22,182	22,770	24,143	22,546	15,211	16,730	16,280	15,780
Georgia Institute of Technology	24	24,609	26,409	25,802	22,323	15,267	16,774	17,973	15,235
U. Minnesota, Twin Cities	25	18,708	18,303	21,094	22,061	11,791	12,370	14,112	14,721
U. California, Irvine	26	22,957	21,325	22,169	21,988	15,099	14,279	16,378	15,738
Yale U.	27	22,551	21,752	23,452	21,309	12,697	13,731	14,079	10,663
U. Pennsylvania	28	15,403	18,743	20,121	21,246	11,081	11,489	12,441	13,345
U. California, Los Angeles	29	17,222	18,893	23,711	19,842	12,045	12,928	16,506	14,839
Indiana U., Bloomington	30	18,262	17,613	19,039	19,310	9,961	11,681	12,357	11,206
Emory U.	31	18,470	19,743	20,261	19,048	11,878	12,453	13,433	12,627
Florida International U.	32	7,254	11,455	17,688	18,412	5,503	5,561	6,744	7,623
U. Utah	33	15,140	15,935 i	40,326 i	18,018 i	12,048	10,084	24,189	11,546

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Pennsylvania State U., University Park and Hershey Medical Center	34	17,085	18,013	18,532	17,696	10,279	9,695	11,300	10,176
U. Texas, Austin	35	15,040	15,216	15,321	16,470	7,646	7,278	7,452	8,614
Rice U.	36	15,323	13,430	16,975	16,251	7,371	5,433	6,163	5,909
U. Pittsburgh, Pittsburgh	37	19,075	17,627	17,222	16,058	9,138	9,569	11,279	10,893
U. Massachusetts, Amherst	38	11,433	12,489	19,452	14,992	7,149	7,795	8,431	10,044
U. Arizona	39	13,025	13,525	13,060	14,511	8,169	7,711	7,735	8,089
Virginia Polytechnic Institute and State U.	40	9,149	12,149	16,338	14,242	4,893	6,950	9,475	8,991
U. Southern California	41	12,856	12,180	14,258	14,232	7,625	7,703	7,884	7,570
Boston U.	42	11,420	13,092	13,712	14,230	7,468	7,975	8,686	9,210
New York U.	43	11,525	12,254	14,483	13,753	9,849	10,777	12,540	11,679
U. California, Davis	44	12,276	11,110	13,683	13,607	8,556	7,774	9,783	9,896
Vanderbilt U. and Vanderbilt U. Medical Center	45	17,906	14,798	12,997	13,559	9,304	7,581	5,760	7,056
Arizona State U.	46	12,588	11,314	14,026	13,030	5,546	5,827	5,870	5,739
Washington U., Saint Louis	47	11,152	11,486	14,244	12,722	7,603	7,419	9,548	8,606
SUNY, Stony Brook U.	48	15,342	10,403	12,052	12,396	7,739	7,694	9,174	9,555
Iowa State U.	49	10,338	14,074	12,549	12,374	4,715	8,084	7,048	8,055
U. Oklahoma, Norman and Health Science Center	50	8,491	10,818	11,836	12,342	6,654	7,849	9,760	8,392
Columbia U. in the City of New York	51	12,809	11,038	11,749	11,983	9,903	8,906	8,577	9,611
U. Virginia, Charlottesville	52	11,775	11,746	11,511	11,980	6,266	7,132	6,674	6,608
SUNY, Binghamton U.	53	11,800	13,084	10,839	11,900	4,981	4,588	4,990	5,324
North Carolina State U.	54	8,261	7,648	10,796	11,821	5,580	5,494	5,718	6,645
Michigan State U.	55	11,204	10,641	10,320	11,806	6,621	6,757	5,939	7,154
U. Nebraska, Lincoln	56	7,942	12,332	9,916	11,631	4,471	6,848	6,911	6,237
U. Southern Mississippi	57	11,125	11,054	13,266	11,328	7,350	8,358	9,050	8,520
U. Florida	58	10,424	11,850	12,084	10,773	5,749	6,292	6,722	6,769
U. California, Santa Cruz	59	6,322	6,840	10,719	10,478	4,568	4,219	7,835	7,886
U. Maryland[b]	60	na	na	9,888	10,389	na	na	7,246	6,777
Tufts U.	61	5,626	42,537	5,517	10,325	4,748	26,222	645	4,517
Wayne State U.	62	7,441	10,072	12,192	10,163	4,846	5,703	7,853	6,426
Duke U.	63	8,425	9,293	10,711	9,809	5,856	7,228	8,841	8,398
Temple U.	64	7,122	6,458	7,522	9,606	5,003	5,078	5,636	5,786
Georgia State U.	65	8,298	8,188	8,366	9,304	5,678	4,860	5,085	6,834
U. California, Riverside	66	9,142	8,602	9,249	9,260	7,249	6,557	7,019	7,396
Carnegie Mellon U.	67	8,706	9,028	8,868	9,207	3,057	3,122	3,818	4,095

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Dartmouth C. and Dartmouth Hitchcock Medical Center	68	8,605	8,435	8,125	9,198	2,146	2,619	2,471	3,074
U. California, Santa Barbara	69	10,179	11,676	17,290	9,166	6,814	7,982	10,287	6,268
U. Colorado Boulder	70	12,078	8,937	9,650	9,041	10,510	7,298	6,877	6,537
Montana State U., Bozeman	71	5,951	6,178	7,838	8,796	4,860	5,110	5,448	5,606
U. Akron	72	11,100	10,295	9,571	8,576	3,455	3,213	3,992	4,238
Washington State U.	73	7,840	9,476	10,768	8,512	5,472	6,544	7,003	5,986
Jackson State U.	74	5,813	7,222	7,573	8,452	5,281	6,848	7,017	7,991
Louisiana State U., Baton Rouge	75	7,054	9,652	8,558	8,252	3,440	4,119	4,312	3,955
U. Delaware	76	8,919	8,752	9,124	8,146	7,255	7,112	7,107	6,472
Colorado State U., Fort Collins	77	7,768	9,944	10,311	8,042	4,816	6,907	7,684	5,324
U. Georgia	78	8,403	15,528	10,042	8,005	3,667	3,512	5,325	3,628
U. Illinois, Chicago	79	8,130	7,653	8,664	7,868	5,002	4,506	5,362	4,659
Northeastern U.	80	5,716	6,270	7,067	7,636	2,962	4,218	4,258	4,811
Boston C.	81	6,137	6,530	7,188	7,492	4,412	4,805	5,597	5,627
SUNY, U. Buffalo	82	9,102	9,069	7,311	7,461	5,566	5,798	4,716	4,783
Auburn U., Auburn	83	4,441	4,298	6,440	7,222	1,179	1,355	1,833	1,737
Xavier U. Louisiana	84	8,007	6,921	5,878	7,186	7,956	6,697	5,796	7,077
Texas Tech U.	85	6,245	7,703	7,368	7,136	1,410	2,510	2,760	2,780
U. Texas, San Antonio	86	10,155	8,475	6,843	6,980	3,175	1,875	1,732	1,685
U. Tennessee, Knoxville[c]	87	8,162	8,481	7,780	6,816	5,244	4,300	3,649	3,170
U. South Florida, Tampa	88	6,711	6,843	8,838	6,507	3,256	3,201	2,686	2,520
Rutgers, State U. New Jersey, New Brunswick	89	9,066	4,606	7,258	6,321	4,188	3,529	2,680	2,557
Mississippi State U.	90	5,472	5,228	6,348	6,041	1,682	1,603	1,206	1,111
U. Connecticut	91	5,319	5,170	4,713	5,868	3,522	3,297	3,005	3,515
U. Cincinnati	92	4,672	4,704	5,968	5,796	2,655	2,199	2,241	2,005
U. Texas, Arlington	93	4,307	4,776	5,243	5,740	1,210	1,228	1,432	1,807
U. Missouri, Columbia	94	4,207	4,893	4,266	5,730	3,847	4,563	4,142	5,168
Rensselaer Polytechnic Institute	95	7,338	5,560	6,393	5,704	3,371	3,075	2,391	3,033
U. Texas, Dallas	96	4,784	3,306	4,093	5,614	1,156	1,048	2,499	3,148
U. North Texas, Denton	97	4,886	3,314	4,069	5,586	1,734	1,191	1,143	1,107
U. Arkansas, Fayetteville	98	5,123	6,092	6,084	5,478	1,942	2,262	2,548	2,160
U. Iowa	99	5,738	5,293	4,659	5,415	3,937	3,835	3,607	3,681
U. Rochester	100	4,601	4,195	5,111	5,309	3,668	3,568	4,115	4,136
New Mexico State U.	101	8,112	6,534	5,931	5,296	6,826	5,348	4,397	3,699
SUNY, U. Albany	102	4,460	5,947	5,655	5,292	1,338	2,759	3,266	3,384
Brown U.	103	3,498	5,160	5,250	5,201	2,087	3,230	3,932	3,416
Oklahoma State U., Stillwater	104	5,474	5,074	4,804	5,180	1,864	1,363	1,971	1,513
CUNY, City C.	105	5,920	5,779	6,308	5,164	4,115	4,351	4,502	3,803

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Nevada, Las Vegas	106	4,048	4,491	4,910	5,140	2,922	2,984	2,991	2,828
U. Oregon	107	4,720	6,286	5,867	4,910	3,030	3,605	3,621	3,937
West Virginia U.	108	2,742	4,761	5,632	4,868	1,641	2,691	3,616	3,040
U. Kentucky	109	4,092	4,703	5,236	4,802	2,579	3,001	4,073	3,669
Rockefeller U.	110	5,774	5,669	4,970	4,720	3,570	3,261	2,287	2,299
U. Central Florida	111	4,191	4,622	4,148	4,627	1,489	1,667	1,635	1,876
U. Texas, El Paso	112	5,735	6,456	6,519	4,620	3,524	4,026	3,736	3,233
California State U., Los Angeles	113	3,715	4,040	5,640	i 4,602	3,637	3,894	4,197	3,633
Howard U.	114	2,969	3,457	4,558	4,546	2,611	2,994	3,989	3,769
U. Kansas	115	6,746	4,670	5,932	4,499	5,945	3,761	4,395	3,664
U. Massachusetts, Lowell	116	2,671	3,948	4,105	4,475	771	422	469	1,064
Kansas State U.	117	3,002	4,750	5,535	4,374	2,164	3,037	3,641	2,739
Clemson U.	118	3,950	4,957	5,030	4,327	2,540	2,865	2,985	2,337
Syracuse U.	119	4,018	4,005	4,454	4,276	1,058	1,037	1,316	1,370
San Diego State U.	120	2,782	3,581	4,203	4,075	1,361	2,481	2,655	2,297
U. Mississippi	121	4,810	3,599	6,256	3,994	2,387	2,169	3,890	2,225
George Washington U.	122	3,440	3,492	3,526	3,976	2,296	2,048	2,256	1,769
Baylor U.	123	4,741	4,279	3,877	3,921	1,320	921	785	945
U. Nevada, Reno	124	2,049	4,285	4,373	3,903	833	1,888	2,004	1,534
New Jersey Institute of Technology	125	2,262	2,538	3,128	3,563	530	700	553	939
Georgetown U.	126	3,863	3,369	2,958	3,318	2,207	2,627	2,194	2,661
U. Denver	127	3,278	2,944	2,818	3,314	2,213	1,916	2,110	2,435
Brigham Young U., Provo	128	3,025	2,942	3,158	3,234	2,254	2,514	2,617	2,457
North Dakota State U.	129	4,865	4,067	3,713	3,106	2,769	1,806	1,889	1,349
Utah State U.	130	1,630	3,075	3,158	3,101	1,084	1,354	1,710	1,636
CUNY, Hunter C.	131	2,274	3,119	3,027	3,003	1,398	2,288	1,810	2,579
Case Western Reserve U.	132	3,387	2,868	3,471	2,955	2,597	2,233	2,735	2,291
U. Alabama, Tuscaloosa	133	3,795	4,382	3,315	2,937	2,563	2,500	2,435	2,148
Oregon State U.	134	2,550	2,916	3,811	2,788	2,055	2,378	3,214	2,560
U. Montana, Missoula	135	3,432	2,184	3,363	2,782	1,613	2,091	2,351	1,783
U. Puerto Rico, Rio Piedras	136	3,631	1,809	2,488	2,776	3,165	1,517	2,217	2,360
Tulane U.	137	2,337	1,866	3,121	2,734	1,480	1,231	1,939	1,372
U. New Mexico	138	3,145	3,678	2,112	2,704	2,710	3,006	1,716	2,243
Colorado School of Mines	139	3,794	3,576	2,839	2,691	2,604	3,080	2,379	2,198
U. California, Merced	140	3,087	2,280	3,653	2,630	2,408	1,630	2,250	2,041
Oakland U.	141	1,189	1,136	2,281	2,521	827	767	720	966
Brandeis U.	142	3,428	i 3,137	2,287	2,502	2,426	2,470	1,819	1,679
U. South Dakota	143	1,517	1,737	2,741	2,499	747	548	756	992
California State U., Long Beach	144	3,230	3,819	3,453	2,474	3,061	3,660	3,327	2,328
U. Vermont	145	1,298	1,368	2,438	2,415	514	1,187	1,279	1,327
U. Hawaii, Manoa	146	2,103	1,750	1,876	2,401	1,692	1,431	1,366	1,732

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Villanova U.	147	1,082	1,371	1,565	2,371	58	271	272	834
U. Massachusetts, Boston	148	858	1,252	1,983	2,370	548	735	1,193	1,706
Marquette U.	149	1,538	2,639	2,202	2,361	1,025	1,467	1,222	1,424
Missouri U. of Science and Technology	150	2,321	2,595	2,446	2,315	1,516	1,985	1,462	1,833
Old Dominion U.	151	3,249	2,687	2,838	2,297	2,314	2,126	1,654	1,091
Virginia Commonwealth U.	152	1,945	2,287	2,383	2,250	1,590	1,174	1,442	1,293
U. North Dakota	153	2,437	2,306	2,720	2,212	806	560	881	610
Duquesne U.	154	2,178	2,436	2,446	2,204	579	721	669	621
U. Wisconsin-Milwaukee	155	4,945	4,080	2,749	2,173	3,567	2,555	1,275	750
Lehigh U.	156	2,655	3,184	2,201	2,147	1,532	2,137	1,312	1,298
U. Memphis	157	1,055	1,409	1,579	2,143	657	713	809	667
Kent State U.	158	1,980	1,390	2,087	2,091	695	550	591	968
U. Rhode Island	159	2,726	2,469	2,020	2,081	2,272	1,855	1,682	1,726
U. North Carolina, Greensboro	160	2,984	2,701	2,612	2,028	2,616	2,291	2,301	1,494
Rutgers, State U. New Jersey, Newark	161	1,844	2,000	1,869	1,976	1,278	1,559	1,412	1,175
Mercer U.	162	20	1,613	2,106	1,951	0	0	0	0
South Dakota State U.	163	3,911	2,960	2,898	1,941	983	1,149	1,213	1,026
U. Toledo	164	1,604	2,367	2,703	1,935	1,359	1,355	1,713	1,367
Michigan Technological U.	165	1,446	1,556	1,507	1,925	214	402	288	642
Clarkson U.	166	837	772	2,300	1,829	291	343	504	523
U. Louisville	167	1,063	1,260	1,824	1,820	782	879	1,116	1,012
Indiana U.-Purdue U., Indianapolis	168	1,590	1,912	1,832	1,799	760	1,075	816	919
San Jose State U.	169	766	1,234	1,541	1,787	654	1,024	1,310	1,420
Saint Louis U.	170	952	1,580	2,179	1,786	566	830	877	1,235
Portland State U.	171	3,576	3,360	2,667	1,782	2,558	2,151	2,222	1,467
Florida Atlantic U.	172	2,827	2,181	2,184	1,772	1,447	1,258	968	836
U. Missouri, Saint Louis	173	1,607	1,985	2,412	1,764	1,077	1,363	1,741	1,131
CUNY, Lehman C.	174	1,562	1,821	1,495	1,698	1,558	1,821	1,495	1,612
U. Texas Rio Grande Valley	175	1,079	642	1,272	1,669	860	537	602	1,061
U. Massachusetts, Dartmouth	176	949	996	1,314	1,601	165	158	152	200
U. New Orleans	177	1,597	1,328	1,387	1,595	765	616	447	231
U. Maryland, Baltimore County	178	4,930	3,977	1,714	1,558	3,777	2,893	824	1,233
Northern Illinois U.	179	407	1,458	1,283	1,536	217	649	969	1,146
Bowling Green State U.	180	1,798	2,390	1,769	1,477	1,172	969	1,005	741
Georgia Southern U.	181	548	598	444	1,476	85	108	118	534
Southern Methodist U.	182	1,261	1,102	1,691	1,469	700	740	798	921

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
San Francisco State U.	183	2,165	2,106	1,418	1,466 i	901	417	171	178 i
U. Miami	184	1,923	1,782	1,102	1,437	1,160	1,193	604	1,011
U. New Hampshire	185	1,212	1,677	1,625	1,428	811	828	740	818
Worcester Polytechnic Institute	186	2,342	2,035	1,722	1,422	1,602	1,589	1,481	1,021
Ohio U.	187	1,162 i	756 i	492	1,399	216	197	219	582
CUNY, Advanced Science Research Center	188	372	340	478	1,376	345	293	430	922
Western Kentucky U.	189	1,363	1,063	1,287	1,360	485	546	664	783
East Carolina U.	190	75	868	1,586	1,354	22	419	688	830
Southern Illinois U., Carbondale	191	2,050	2,118	901	1,318	1,212	1,178	592	934
U. Alabama, Huntsville	192	881	1,648	1,466	1,300	197	169	262	218
U. North Carolina, Charlotte	193	517	882	1,585	1,261	499	866	1,207	977
U. Louisiana, Lafayette	194	630	853	162	1,256	71	114	160	158
U. South Carolina, Columbia	195	8,779	1,723	1,394	1,205	4,997	0	1	0
Miami U.	196	1,694	1,786	847	1,185	428	521	14	292
Texas State U.	197	1,351	1,513	1,296	1,141	1,351	1,012	870	976
U. Arkansas, Little Rock	198	82	901	896	1,088	51	603	614	828
U. Maine	199	755	888	2,171	1,087	240	347	810	220
Western Washington U.	200	870	964	898	1,037	387	487	544	743
Marshall U.	201	642	483	679	1,019	226	258	462	99
U. Alabama, Birmingham	202	1,781	2,239	2,177	1,018	1,255	1,739	1,880	925
Trinity U.	203	808	1,237	1,175	1,012	202	673	452	543
U. Puerto Rico, Mayaguez	204	1,348	618	792	980	835	382	545	612
Clark Atlanta U.	205	1,351	992	804	978	1,068	960	680	760
CUNY, Queens C.	206	773	815	893	955	723	685	846	870
Wichita State U.	207	655	607	715	945	373	410	656	756
U.S. Naval Academy	208	1,613	1,223	1,324	927	1,590	1,157	1,284	903
Furman U.	209	1,286	1,146	981	913	746	527	556	357
Southern Illinois U., Edwardsville	210	547	1,026	502	911	175	299	306	231
Drexel U.	211	935	1,494	1,130	902	319	629	308	305
Boise State U.	212	299	900	1,182	857	113	417	619	509
American U.	213	651	1,300	1,864	847	234	738	190	196
Arkansas State U., Jonesboro	214	877	578	922	840	737	320	740	720
U. Colorado Denver and Anschutz Medical Campus	215	773	741	1,008	838	683	710	989	819
U. Northern Iowa	216	492	705	1,271	825	328	472	1,002	710
Ball State U.	217	384	677	963	801	256	361	576	315

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Northern Arizona U.	218	922		1,355		1,387		799		576		1,094		271		324	
CUNY, Brooklyn C.	219	1,551		1,168		760	i	789		1,445		1,049		699	i	727	
Amherst C.	220	747		654		1,062		782		106		126		21		289	
Wesleyan U.	221	681		1,371		960		776		398		695		395		487	
James Madison U.	222	264		1,123		1,123		766		90		147		481		168	
Cleveland State U.	223	1,314		763		733		761		0		109		211		307	
Bryn Mawr C.	224	512		510		422		758		108		158		136		130	
Reed C.	225	82		243		222		757		0		19		49		109	
St. Edward's U.	226	650		345		272		750		520		230		250		735	
California State U., Fresno	227	632		562		703		748		408		431		482		616	
Fordham U.	228	260		63		333		747		113		0		107		294	
South Dakota School of Mines and Technology	229	935		685		504		732		536		539		485		691	
Kennesaw State U.	230	1,857		798		1,595		731		365		324		621		393	
U. Minnesota, Duluth	231	627		775		828		717		242		254		302		286	
Spelman C.	232	184		620		595		713		184		620		595		713	
Louisiana Tech U.	233	637		853		732		711		119		243		86		71	
Loyola U., Chicago	233	844		1,111		1,250		711		514		726		913		610	
Long Island U.	235	0		0		20		675		0		0		0		0	
California State U., Northridge	236	633		385		366		666		596		369		315		612	
Texas Southern U.	237	126		196		144		661		99		139		114		527	
Catholic U. of America	238	586		662		551		659		462		540		481		523	
Western Michigan U. and Homer Stryker M.D. School of Medicine	239	631		587		650		649		501		273		258		335	
Creighton U.	240	736	i	583	i	734	i	626	i	303	i	196	i	302	i	277	i
Grinnell C.	241	586		621		626		625		96		58		22		352	
Hope C.	242	1,196		826		520		615		323		264		226		204	
Delaware State U.	243	836		1,275		590		613	i	686		1,020		457		476	i
U. Idaho	243	1,336		881		1,068		613		781		315		501		51	
Clark U.	245	91		243		539		594		0		74		204		161	
U. Missouri, Kansas City	246	394		312		347		591		88		133		182		273	
Tennessee Technological U.	247	653		820		653		583		403		549		498		426	
U. San Diego	248	588		673		727		578		405		403		575		341	
Wake Forest U.	249	606		391		1,370		575		593		389		397		396	
Idaho State U.	250	330		418		583		564		309		363		505		429	
U. Wyoming	251	907		2,484		933		554		902		679		915		554	
New Mexico Highlands U.	252	724		714		ne		541		722		675		ne		541	
U. Arkansas, Pine Bluff	253	326		405		448		540		250		315		352		418	
U. of the Sciences Philadelphia	254	437		669		614		533		272		267		497		293	
California State U., Dominguez Hills	255	722		778		781		531		523		581		603		390	

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
North Carolina Agricultural and Technical State U.	256	154	917	626	522	134	462	306	114
Rochester Institute of Technology	256	950	929	651	522	662	632	395	382
Montclair State U.	258	187	256	245	507	167	242	106	224
U. Central Arkansas	259	341	356	476	505	295	289	440	414
William & Mary	260	462	699	766	501	371	592	497	379
Carleton C.	261	142	410	382	488	67	219	114	142
U. North Florida	262	349	343	345	485	59	143	248	286
Florida Institute of Technology	263	842	571	448	469	468	186	180	154
Grambling State U.	264	578	525	493	468	301	381	424	349
U. Wisconsin-Eau Claire	265	513	405	463	457	413	307	388	355
California Polytechnic State U., San Luis Obispo	266	409	348	385	456	218	252	198	265
Pomona C.	267	409	391	304	446	119	158	132	212
Winston-Salem State U.	268	309	180	193	437	309	180	193	410
Colgate U.	269	199	409	570	432	105	271	225	226
Northern Kentucky U.	270	275	292	369	431	196	176	258	251
Prairie View A&M U.	271	447	224	299	421	349	163	182	392
U.S. Military Academy	272	0	0	0	419	0	0	0	419
U. Maryland Center for Environmental Science	273	841	685	234	416	16	211	25	102
Eastern Michigan U.	274	240	150	176	410	0	0	0	1
Sam Houston State U.	275	361	353	472	407	258	239	351	342
U. South Alabama	275	262	278	471	407	234	239	355	338
Franklin and Marshall C.	277	411	780	533	406	237	579	187	254
Seton Hall U.	278	0	0	0	401	0	0	0	401
Haverford C.	279	424 i	320 i	315 i	394 i	339	221	201	187
Wright State U.	280	457	675	384	390	245	387	183	221
Rowan U.	281	509	560	614	388	139	139	422	213
Texas Christian U.	282	530	649	306	377	278	158	106	213
Chapman U.	283	607	491	584	370	152	346	334	362
Providence C.	283	150	175	93	370	85	94	71	352
Grand Valley State U.	285	432	599	243	364	398	571	219	341
U. Ana G. Mendez, Gurabo	286	235	362	1,007	362	0	144	29	25
West Virginia State U.	287	204	353	165	357	204	353	100	323
Connecticut C.	288	634	538	902	350	305	247	384	113
Naval Postgraduate School	289	395	299	104	348	395	299	104	234
Middle Tennessee State U.	290	679	299	386	345	426	198	124	185
Santa Clara U.	291	242	289	337	342	232	233	313	315
Barnard C.	292	443	361	606	341	389	361	561	276
Illinois State U.	293	457	501	702	338	378	390	545	291

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
CUNY, York C.	294	ne	ne	448	331	ne	ne	437	329
St. John's U., New York	295	826	248	251	329	118	142	221	325
Rutgers, State U. New Jersey, Camden	296	9	19	74	322	2	2	0	0
Illinois Institute of Technology	297	646	433	293	319	557	395	281	296
U. Richmond	298	517	411	318	318	384	232	88	188
Skidmore C.	299	175	241	256	314	70	128	115	209
CUNY, C. Staten Island	300	425	846 i	880	311	286	533 i	651	228
Calvin U.	301	551	422	325	310 i	500	372	265	254 i
Alabama A&M U.	302	751 i	600 i	447 i	305 i	594 i	460 i	325 i	222 i
George Mason U.	303	145	85	621	304	95	61	79	125
Colby C.	304	268	420	330	302	201	359	260	225
Johnson C. Smith U.	305	0	228	66	300	0	228	66	300
California State U., East Bay	306	ne	ne	ne	296	ne	ne	ne	164
SUNY, Oswego	307	498	525	385	291	407	351	266	182
New Mexico Institute of Mining and Technology	308	574	624	450	287	574	615	450	287
Wellesley C.	309	470	438	487	283	426	408	367	251
U. Nebraska, Kearney	310	562	162	493	281	0	101	146	118
Tougaloo C.	311	80	848	849	280	80	848	849	280
William Paterson U.	312	57	153	229	267	0	0	0	0
U. Tulsa	313	422	300	317	261	85	51	21	43
Harvey Mudd C.	314	260	803	217	259	82	584	88	201
Florida Gulf Coast U.	315	37	0	22	257	0	0	0	204
Tarleton State U.	315	92	70	227	257	0	0	0	0
West Chester U. Pennsylvania	317	475	229	262	255	28	0	62	35
Middlebury C.	318	192	153	245	253	188	131	213	238
Western Carolina U.	318	157	196	342	253	93	144	172	118
Bucknell U.	320	356 i	396	265	252 i	19 i	18	80	77 i
Framingham State U.	321	17	28	ne	247	0	17	ne	169
Towson U.	322	199	217	218	246	7	84	110	120
Whitman C.	322	ne	ne	392	246	ne	ne	301	164
Loyola Marymount U.	324	162	249	369	231	23	131	132	140
Swarthmore C.	324	514	628	552	231	169	245	222	155
U. Wisconsin-La Crosse	326	248	242	249	228	126	84	69	54
Appalachian State U.	327	127	162	108	226	96	147	78	74
U. of the Incarnate Word	327	ne	34	224	226	ne	0	178	176
Salish Kootenai C.	329	665	869	553	222	665	869	553	222
CUNY, John Jay C. of Criminal Justice	330	150	329	158	220	110	249	158	167
Smith C.	331	161	221	242	217	88	142	151	167
Oberlin C.	332	497	381	222	213	435	262	167	71

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southeastern Louisiana U.	332	130	216	81	213	31	54	28	135
Fayetteville State U.	334	0	0	0	212	0	0	0	212
Bates C.	335	302	291	209	211	209	252	166	185
West Texas A&M U.	335	41	43	121	211	3	0	71	166
Claflin U.	337	484	600	501	208	484	600	501	208
U. North Carolina, Wilmington	337	320	388	458	208	278	312	374	169
Indiana U. Pennsylvania	339	223	68	143	207	216	28	46	93
Purdue U., Northwest	339	229	305	115	207	212	284	111	168
Macalester C.	341	536	447	296	206	268	256	272	118
Albion C.	342	131	108	123	204	0	0	0	92
U. Puerto Rico, Humacao	343	ne	313	157	200	ne	287	104	192
Central Washington U.	344	183	115	51	197	146	71	12	152
Youngstown State U.	345	219	44	101	182	211	26	87	166
Occidental C.	346	76	191	170	181	45	177	151	140
Texas A&M U.-Corpus Christi	346	332	341	645	181	299	198	414	107
U. North Carolina, Asheville	348	167	201	13	180	145	190	0	146
U. Hawaii, Hilo	349	0	4	17	179	0	0	12	178
Morehouse C.	350	96	391	116	177	96	391	116	177
Morgan State U.	350	9	3	0	177	9	3	0	175
Bowie State U.	352	111	83	112	175	111	83	112	175
Salisbury U.	353	159	111	521	169	57	38	335	21
California State U., Fullerton	354	241	414	213	166	205	404	7	0
CUNY, Medgar Evers C.	354	313	339	355	166	281	304	301	129
Murray State U.	356	53	194	337	165	41	157	328	155
Hamilton C.	357	155	73	82	164	0	0	0	0
Texas A&M U.-Kingsville	358	84	48	148	163	11	0	83	108
Willamette U.	359	131	225	271	161	9	145	149	62
C. Wooster	360	200	554	389	160	67	379	151	91
U. of the Virgin Islands	361	0	0	0	159	0	0	0	159
Lafayette C.	362	125	177	176	156	113	152	151	94
U. Puget Sound	362	149	ne	ne	156	118	ne	ne	124
Williams C.	362	145	155	165	156 i	45	53	0	0 i
U. Puerto Rico, Cayey	365	231	41	83	155	213	41	83	137
U. Wisconsin-River Falls	365	130	103	ne	155	130	103	ne	84
Davidson C.	367	394	294	282	154	345	215	225	112
Lewis and Clark C.	368	294	160	127	151	129	50	45	53
Winthrop U.	369	213	254	287	150	52	95	100	64
North Carolina Central U.	370	416	128	120	149	409	0	75	54

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Benedict C.	371	314		518		374		146		314		518		364		146	
U. of the Pacific	372	58		114		257		144		58		114		257		144	
U. Central Oklahoma	373	75		87		140		139	i	73		87		140		139	i
Pace U.	374	350		349		152		138		0		0		0		0	
Azusa Pacific U.	375	229		250		98		137		40		44		0		12	
Tuskegee U.	376	282	i	229		131		134		229		229		131		134	
C. Charleston	377	198		245		200		131		81		103		154		88	
C. of Saint Benedict	378	118		140		137	i	130	i	16		22		21	i	20	i
Texas A&M U.-Commerce	379	127		227		240		129		62		104		136		58	
Saint Joseph's U.	380	176		194		208		128		9		0		0		0	
Saint Michael's C.	381	36		146		168		125		2		0		0		0	
Doane U.	382	ne		251		121		123	i	ne		166		60		62	i
Montana Technological U.	382	243		110		62		123		217		77		54		97	
Purdue U., Fort Wayne	382	55		51		101		123		40		51		101		123	
U. New Haven	385	0		178		264		122		0		1		1		0	
Southern Connecticut State U.	386	55		8		98		118		0		0		0		0	
Kettering U.	387	78		133		149		115		43		84		89		64	
Mount Holyoke C.	388	152		263		210		114		142		260		183		111	
California State Polytechnic U., Pomona	389	134		959		17		110		128		664		17		108	
SUNY, Geneseo	390	68		63		59		102		0		0		0		82	
Southern U. and A&M C., Baton Rouge	391	664		592		451		101		526		310		73		39	
U. Wisconsin-Platteville	391	78	i	ne		99	i	101	i	40	i	ne		36	i	36	i
Saint John's U., Collegeville	393	91		106		104	i	99	i	0		0		0	i	0	i
Suffolk U.	394	97	i	ne		ne		97		33	i	ne		ne		97	
California Lutheran U.	395	ne		ne		81		95		ne		ne		36		59	
SUNY, C. of Environmental Science and Forestry	396	307		133		243		94		162		14		42		47	
U. Minnesota, Morris	396	36		ne		14		94		0		ne		0		0	
U. of St. Thomas (MN)	396	239		187		338		94		23		49		42		49	
California State U., Bakersfield	399	88		5		94		91		0		0		0		29	
East Tennessee State U.	399	8		35	i	78	i	91	i	1		11		11		27	
California State U., Sacramento	401	177		156		183		89		99		92		102		44	
Sonoma State U.	402	ne		ne		ne		88		ne		ne		ne		8	
Seattle U.	403	32		63		84		86		1		8		0		0	
Claremont McKenna C.	404	67		40		144		85		50		39		140		85	
Fairfield U.	405	563		14		297		84		283		14		297		41	
New Jersey City U.	406	126		130		40		82		126		130		35		82	
Bradley U.	407	69		150		279		81		36		45		243		1	

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Central Connecticut State U.	408	42		ne		101		78		3		ne		78		60	
Bowdoin C.	409	118		193		79		77		95		162		71		43	
Ithaca C.	410	ne		ne		ne		76		ne		ne		ne		70	
Norfolk State U.	410	110		404		508		76		93		404		508		76	
St. Olaf C.	412	244		186		79		75		105		69		0		6	
Weber State U.	413	ne		ne		ne		74		ne		ne		ne		74	
Fort Hays State U.	414	ne		ne		73		72		ne		ne		32		64	
Fort Valley State U.	414	102		88		104		72		102		88		104		72	
Keene State C.	414	7		ne		52		72		0		ne		52		53	
U. Houston-Downtown	414	52		73		77		72		0		0		0		0	
Manhattan C.	418	ne		ne		55		71		ne		ne		55		71	
Pacific U.	418	243		188		189		71		121		113		114		0	
SUNY, C. Brockport	420	0		0		33		69		0		0		0		39	
Christopher Newport U.	421	11		18		102		63		0		9		64		53	
U. Wisconsin-Green Bay	422	44	i	42	i	63	i	62	i	37	i	19	i	30	i	33	i
U. Wisconsin-Stevens Point	422	41	i	48	i	55	i	62		24	i	30	i	36	i	42	
California State U., San Marcos	424	0		0		118		61		0		0		118		61	
U. Alaska, Anchorage	425	0		0		15		59		0		0		15		59	
Mercyhurst U.	426	10	i	ne		55	i	57	i	10	i	ne		24	i	25	i
Tennessee State U.	426	21		14		19		57		19		14		1		39	
U. Alaska, Fairbanks	426	1,085		11		75		57		267		11		48		57	
U. of Mary Washington	426	ne		4		32		57		ne		4		32		49	
Wheaton C., Wheaton	426	63		37		101		57		6		6		0		0	
U. South Florida, Saint Petersburg	431	46		0		61		56		46		0		61		56	
Eastern Kentucky U.	432	305		65		0		55		251		62		0		26	
Gettysburg C.	432	45	i	149		66		55		9		112		0		0	
U. Louisiana, Monroe	432	2		50		75		55		0		26		67		55	
Albany State U.	435	78		137		150		54		78		137		150		54	
C. New Jersey	435	4		27		ne		54		3		24		ne		48	
Lamar U.	435	121		126		128		54		78		2		73		20	
Niagara U.	435	144		145		78		54		0		0		0		0	
Pepperdine U.	435	60		99		77		54		0		0		0		0	
U. Northern Colorado	440	31		176		71		53		0		0		0		0	
U. Tennessee, Chattanooga	441	61		10		35		52		13		0		0		0	
U. Wisconsin-Oshkosh	441	43	i	45	i	50	i	52	i	35	i	36	i	40	i	42	i
U. South Carolina, Aiken	443	0		108		0		51		0		0		0		8	
St. Bonaventure U.	444	ne		ne		ne		50		ne		ne		ne		38	
Minnesota State U., Mankato	445	75		69		51		48		38		55		18		0	
Trinity C., Hartford	446	207		275		154		46		166		129		92		5	

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. San Francisco	447	55	73	55	45	0	0	0	0
Fort Lewis C.	448	ne	ne	1	44	ne	ne	0	9
California State U., Channel Islands	449	10	33	57	39	0	23	54	0
Elon U.	449	40	38	40	39	0	0	0	0
Florida A&M U.	449	5	1,628	25	39	5	1,628	21	39
Humboldt State U.	449	9	3	48	39	0	0	0	0
Indiana State U.	449	41	42	62	39	41	42	62	39
Kean U.	449	ne	ne	ne	39	ne	ne	ne	0
Western Illinois U.	449	8	12	38	39	3	0	17	21
Colorado C.	456	129	183	83	38	0	0	0	0
DePaul U.	456	0	58	42	38	0	0	1	2
Union C., Schenectady	456	73	41	408	38	1	17	352	21
Biola U.	459	31 i	34 i	33 i	35 i	19 i	21 i	20 i	21 i
Saginaw Valley State U.	459	49	42	300	35	21	25	294	21
Stephen F. Austin State U.	461	65	91	85	33	0	0	0	0
U. Texas, Tyler	461	41	33	44	33	0	0	0	0
Central Michigan U.	463	283	192	257	31	142	86	68	0
Hobart and William Smith Colleges	464	147	ne	92	30	93	ne	17	0
Augusta U.	465	102	43	48	29	0	0	0	0
Lipscomb U.	466	ne	ne	ne	28 i	ne	ne	ne	17 i
California State U., Chico	467	4	48	30	26	4	18	16	6
Lincoln U., Jefferson City	467	53	3	64	26	53	3	64	26
Stockton U.	467	ne	1	7	26	ne	1	2	0
U. Houston-Clear Lake	467	21	38	44	26	0	0	0	0
Citadel Military C. South Carolina	471	ne	ne	ne	23	ne	ne	ne	0
Missouri State U.	472	17	24	7	22	17	24	7	20
Pennsylvania State U., Behrend	472	56	49	76	22	27	15	17	16
CUNY, Baruch C.	474	2	0	0	21	0	0	0	21
U. Michigan, Flint	474	31	22	26	21	0	0	0	0
U. New England	476	20	27	23	20	0	0	0	0
Monmouth U.	477	ne	ne	18	19	ne	ne	0	0
Pittsburg State U.	477	23	21	28	19	23	21	28	19
Colorado State U., Pueblo	479	ne	ne	6	18	ne	ne	0	0
Vassar C.	479	159	175 i	38	18	159	175 i	38	13
Florida Polytechnic U.	481	ne	ne	0	17	ne	ne	0	0
Midwestern State U.	481	ne	ne	ne	17	ne	ne	ne	0
Dillard U.	483	70	12	0	16	0	0	0	16
U. Illinois, Springfield	484	0	0	12	14	0	0	12	12
California State U., Stanislaus	485	13	17	20	12	0	0	0	0

TABLE 49

Total and federally financed higher education R&D expenditures in chemistry, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Stevens Institute of Technology	486	138	51	0	10	138	51	0	0
Kenyon C.	487	ne	131	34	9	ne	0	0	0
Northern Michigan U.	487	14	26	24	9	0	0	0	0
U. Dayton	489	146	12	8	8	25	0	0	0
Columbus State U.	490	ne	ne	ne	7	ne	ne	ne	0
U. Maryland, Eastern Shore	490	0	0	0	7	0	0	0	7
Central State U.	492	37	83	63	6	37	83	63	6
Dickinson C.	492	78	ne	14	6	57	ne	0	0
Gallaudet U.	494	66	54	15	5	66	54	11	0
U. Detroit Mercy	494	1	11	13	5	0	0	0	0
U. South Florida, Sarasota-Manatee	494	0	0	20	5	0	0	0	0
California State U., San Bernardino	497	51	20	23	4	30	0	0	3
Hofstra U.	497	15	8	6	4	0	0	0	0
Roger Williams U.	499	573	234	15	3	451	90	0	0
St. Cloud State U.	499	15	1	1	3	8	0	0	0
Austin Peay State U.	501	17	25	14	2	0	0	0	0
U. Nebraska, Omaha	501	75	34	2	2	38	15	0	0
All other surveyed institutions	-	14,947	15,712	2,774	0	10,348	9,098	1,970	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $15,621 thousand imputed for total and $15,252 thousand reported for federally financed R&D expenditures in chemistry in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	2,155,727	2,206,653	2,327,359	2,434,467	1,549,492	1,570,749	1,657,797	1,736,916
Johns Hopkins U.[a]	1	96,487 i	150,439 i	183,818 i	232,583 i	90,873	143,918	176,299	222,997
Michigan State U.	2	180,719	158,507	140,832	142,473	131,435	105,035	89,321	92,899
California Institute of Technology	3	85,908	83,649	84,599	106,237	75,782	71,571	72,782	92,720
U. Rochester	4	84,767	88,866	106,277	95,695	80,662	84,512	102,405	90,436
U. Colorado Boulder	5	43,282	54,531	66,848	69,967	38,697	49,962	62,321	64,624
U. California, San Diego	6	38,677	44,584	52,798	66,169	24,191	24,028	25,547	32,298
Harvard U.	7	36,614	36,953	43,696	49,146	22,087	23,294	25,671	29,457
Stanford U.	8	33,393	35,411	49,051	48,826	22,419	23,263	35,992	32,816
Massachusetts Institute of Technology	9	55,226	44,041	43,880	48,695	44,924	34,614	33,496	38,758
Cornell U.	10	44,463	47,530	50,551	48,658	31,859	37,320	39,904	37,180
U. Maryland[b]	11	na	na	47,394	46,013	na	na	34,664	29,752
Florida State U.	12	41,449	43,927	39,877	41,870	22,886	26,286	23,281	26,260
Princeton U.	13	31,045	34,551	38,060	40,161	23,779	25,073	25,639	28,224
U. California, Los Angeles	14	38,111	35,056	34,460	33,263	26,818	23,630	23,350	22,591
U. California, Berkeley	15	25,229	24,630	29,261	32,085	15,643	16,384	17,665	17,480
U. Central Florida	16	26,462	23,077	26,198	29,883	20,272	16,823	16,665	17,100
Yale U.	17	31,984	32,428	32,019	27,884	20,726	19,468	17,859	16,547
U. Illinois, Urbana-Champaign	18	27,267	25,760	24,104	27,506	20,646	18,780	19,128	20,032
SUNY, Stony Brook U.	19	16,674	27,815	27,697	26,615	12,187	19,335	21,289	19,742
U. Texas, Austin	20	26,240	26,391	23,553	26,463	16,068	14,929	13,519	18,638
Pennsylvania State U., University Park and Hershey Medical Center	21	22,291	26,179	26,674	26,281	16,063	17,984	18,349	16,969
U. Wisconsin-Madison	22	24,903	24,980	27,643	24,984	19,868	19,691	19,614	17,822
U. Michigan, Ann Arbor	23	26,966	24,822	24,752	23,596	16,792	15,236	14,747	13,625
U. California, Santa Barbara	24	20,023	17,663	16,998	23,427	12,914	10,856	8,294	13,661
U. Pennsylvania	25	22,816	23,102	23,806	21,371	17,661	16,380	15,939	14,450
Ohio State U.	26	18,886	19,057	22,458	21,007	14,851	15,524	17,794	17,224
U. Minnesota, Twin Cities	27	18,362	19,371	22,848	19,948	15,206	16,100	18,504	16,693
Purdue U., West Lafayette	28	13,303	14,819	15,318	19,417	8,151	8,549	8,498	9,235
U. Washington, Seattle	29	18,622	16,964	19,123	19,281	16,595	15,446	17,410	17,789
U. Texas M. D. Anderson Cancer Center	30	12,763	15,858	19,017	19,060	5,510	6,607	7,922	8,114
U. California, Irvine	31	16,075	16,589	18,441	18,770	9,540	9,934	11,538	10,987
Texas A&M U., College Station and Health Science Center	32	17,691	19,108	21,835	17,848	7,900	9,529	12,329	9,751

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Iowa	33	14,778	19,055	18,463	17,099	13,204	17,902	16,600	14,623
Rice U.	34	15,070	14,060	16,234	16,107	9,312	8,839	9,712	9,200
U. Notre Dame	35	15,114	16,252	16,720	15,639	10,239	10,939	11,107	10,607
Northwestern U.	36	12,441	18,337	17,918	15,418	7,509	8,597	10,063	8,508
Iowa State U.	37	9,867	16,452	16,586	14,842	3,941	10,735	10,808	9,760
U. Massachusetts, Lowell	38	10,754	10,236	13,871	14,669	7,366	6,782	7,738	10,138
Vanderbilt U. and Vanderbilt U. Medical Center	39	13,129	14,239	15,954	14,458	6,461	7,143	8,777	8,139
U. Tennessee, Knoxville[c]	40	13,929	15,826	17,897	14,423	10,614	10,820	13,025	8,951
Boston U.	41	13,878	14,384	14,758	14,002	9,644	9,806	9,580	9,963
Louisiana State U., Baton Rouge	42	12,155	14,148	14,926	13,851	7,393	8,197	8,553	9,293
U. Nebraska, Lincoln	43	15,963	15,119	15,908	13,795	11,773	10,574	11,136	9,346
U. Florida	44	11,739	10,474	11,707	13,128	7,480	6,922	8,198	9,258
New York U.	45	9,106	11,661	11,615	12,945	5,491	7,093	7,180	6,927
Rutgers, State U. New Jersey, New Brunswick	46	18,822	10,341	11,380	12,903	10,751	7,595	7,578	6,212
Indiana U., Bloomington	47	12,062	7,165	10,702	12,725	8,158	7,148	7,561	9,642
Northeastern U.	48	9,884	10,413	11,698	12,711	7,078	7,634	7,954	8,026
U. Chicago	49	16,495	13,301	12,617	12,688	13,921	11,582	10,463	10,586
Duke U.	50	9,567	10,029	10,465	12,587	8,887	9,104	9,595	10,780
Washington State U.	51	20,631	17,436	16,288	12,549	7,074	6,667	7,330	6,837
Arizona State U.	52	12,970	12,359	11,934	12,338	5,930	6,077	5,865	6,395
Columbia U. in the City of New York	53	22,538	10,285	11,102	12,331	20,655	8,485	8,586	9,642
U. Virginia, Charlottesville	54	10,903	10,786	11,930	12,224	8,231	8,255	8,914	10,220
Catholic U. of America	55	8,497	9,434	11,192	12,213	8,059	9,090	10,760	11,952
Dartmouth C. and Dartmouth Hitchcock Medical Center	56	11,250	10,542	10,632	12,021	3,957	3,205	3,832	4,677
Georgia Institute of Technology	57	11,390	11,087	12,427	11,892	6,972	6,198	7,871	7,182
North Carolina State U.	58	10,517	10,671	11,957	11,615	7,474	7,424	7,674	7,012
Carnegie Mellon U.	59	9,369	9,912	9,879	11,458	5,486	5,648	5,753	6,254
U. Texas, Arlington	60	8,966	10,412	9,378	10,782	5,830	5,879	6,027	6,615
U. North Carolina, Chapel Hill	61	7,864	8,318	8,412	10,472	5,933	5,441	6,000	8,065
U. California, Davis	62	10,597	10,035	10,672	10,195	7,324	6,947	7,553	7,160
Syracuse U.	63	10,264	9,237	11,440	9,629	6,874	6,218	7,811	5,770
U. Arizona	64	7,069	6,151	8,970	9,230	4,414	3,972	5,354	5,464
Montana State U., Bozeman	65	6,297	4,734	7,183	9,194	5,038	4,223	4,393	5,188
U. Massachusetts, Amherst	66	7,430	7,256	7,403	8,927	4,150	3,763	4,709	4,976

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Houston	67	6,366	5,168	7,839	8,637	3,696	2,845	3,366	2,775
U. Pittsburgh, Pittsburgh	68	9,296	9,209	9,772	8,507	6,629	6,891	6,844	6,176
Kansas State U.	69	6,958	8,725	8,878	8,209	5,625	6,066	6,186	6,007
Florida International U.	70	5,299	6,587	5,911	8,185	2,400	3,399	3,113	3,976
Brown U.	71	8,325	9,766	7,636	7,968	4,400	4,482	4,358	3,718
U. Illinois, Chicago	72	5,202	4,949	5,792	7,884	3,966	3,690	4,579	5,874
Auburn U., Auburn	73	5,107	7,303	6,710	7,842	2,707	3,557	4,225	5,012
Virginia Polytechnic Institute and State U.	74	5,637	6,511	7,909	7,831	3,061	3,627	4,538	4,788
West Virginia U.	75	9,391	10,631	8,707	7,810	5,912	6,494	6,067	5,765
Air Force Institute of Technology	76	4,668	5,871	8,478	7,796	3,505	4,241	4,457	4,973
U. California, Riverside	77	8,420	7,903	6,917	7,777	7,357	6,997	5,889	6,880
U. Mississippi	78	8,796	7,349	8,361	7,658	6,115	4,968	5,816	5,768
Texas Tech U.	79	8,265	7,096	6,641	7,419	1,316	1,194	1,656	1,215
U. Oregon	80	6,458	5,695	7,523	7,248	4,846	4,294	4,467	4,826
U. California, Santa Cruz	81	7,496	7,803	7,057	6,991	5,082	5,071	5,048	4,865
Brandeis U.	82	7,256 i	7,129	7,551	6,866	5,603	4,919	5,958	5,523
Temple U.	83	5,933	5,366	5,717	6,708	3,959	3,696	4,069	3,720
SUNY, Binghamton U.	84	4,167	6,720	3,930	6,624	861	1,096	1,121	2,318
U. Wisconsin-Milwaukee	85	8,290	10,329	8,327	6,526	6,650	8,049	6,609	4,260
U. Oklahoma, Norman and Health Science Center	86	3,570	4,081	3,526	6,397	2,746	3,088	2,731	3,054
Naval Postgraduate School	87	3,524	4,310	6,126	6,244	2,864	3,074	5,302	6,178
U. Connecticut	88	4,871	5,973	6,330	6,034	3,378	3,604	3,691	4,609
Georgetown U.	89	2,964	3,119	3,921	5,833	2,209	1,955	2,939	4,763
Clemson U.	90	5,009	5,148	5,861	5,747	3,499	3,171	3,703	3,820
Georgia State U.	91	7,143	6,368	4,948	5,727	5,452	4,558	4,548	5,143
U. Southern California	92	3,218	2,735	4,410	5,508	2,444	2,715	3,439	4,861
U. Delaware	93	4,954	5,605	5,499	5,429	4,243	4,747	4,630	4,452
Colorado School of Mines	94	3,180	3,128	4,841	5,398	2,657	2,689	4,336	5,059
William & Mary	95	4,933	4,520	5,788	5,280	4,327	3,600	3,752	4,049
U. Maine	96	3,181	4,442	5,457	5,264	674	1,633	1,844	1,648
U. Texas, Dallas	97	2,178	3,845	2,216	5,219	1,230	1,675	1,749	2,914
Washington U., Saint Louis	98	5,829	6,274	5,476	5,060	4,997	5,461	4,827	4,606
Old Dominion U.	99	4,377	3,875	4,709	4,731	3,559	3,276	3,606	3,510
U. Toledo	100	5,198	5,693	4,115	4,645	1,730	2,781	2,724	3,237
Oklahoma State U., Stillwater	101	2,924	3,429	3,654	4,604	552	875	1,164	1,357
George Washington U.	102	3,048	3,699	4,108	4,334	2,269	2,771	3,354	3,597
U. Arkansas, Fayetteville	103	3,209	3,575	3,370	4,313	1,807	1,747	1,765	2,292

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. New Mexico	104	5,644	4,344	3,989	4,272	5,086	3,967	3,620	3,846
U. Texas, San Antonio	105	2,729	3,086	3,774	4,254	1,999	1,858	2,463	3,017
U. Nevada, Reno	106	4,544	4,126	3,942	4,235	3,498	2,695	2,118	2,590
U. South Florida, Tampa	107	4,385	5,096	4,440	4,213	2,577	2,761	2,225	2,114
Northern Illinois U.	108	4,254	4,988	4,823	4,024	3,100	3,136	3,311	2,567
U. Hawaii, Manoa	109	4,298	3,897	4,040	4,021	3,951	3,677	3,914	3,792
Ohio U.	110	4,731 i	4,602 i	3,859	3,971	2,631	2,373	2,386	2,885
American U.	111	1,853	2,245	3,303	3,867	1,344	1,768	2,732	3,205
Delaware State U.	112	2,928	2,434	3,716	3,848 i	2,182	1,567	1,158	1,207 i
U. Nevada, Las Vegas	113	4,724	4,989	3,765	3,807	3,934	3,504	1,321	982
Missouri U. of Science and Technology	114	687	1,019	1,017	3,792	638	978	620	2,758
U. Kentucky	115	3,433	2,366	2,937	3,751	2,976	1,928	2,534	3,116
New Jersey Institute of Technology	116	4,579	4,059	4,090	3,748	1,772	1,430	1,511	1,542
U. Miami	117	5,579	4,079	4,465	3,713	3,999	3,451	4,041	3,161
U. North Texas, Denton	118	1,538	2,044	3,517	3,689	910	1,240	1,445	1,222
Wayne State U.	119	4,784	5,025	4,317	3,654	3,054	3,666	2,614	2,469
U. Alabama, Tuscaloosa	120	2,480	3,078	2,437	3,530	1,835	2,575	2,287	2,568
SUNY, U. Buffalo	121	4,396	4,227	4,236	3,526	2,474	2,949	2,998	2,412
Rochester Institute of Technology	122	2,983	3,316	3,369	3,504	2,305	2,468	2,219	2,160
Mississippi State U.	123	3,286	4,773	4,710	3,475	1,392	2,737	2,424	1,138
U. Missouri, Columbia	124	9,902	9,092	6,020	3,443	8,540	7,613	2,544	2,486
Emory U.	125	2,599	2,773	2,882	3,433	1,626	1,844	2,262	2,729
CUNY, City C.	126	5,193	4,213	3,207	3,361	3,709	3,260	2,179	2,626
Hampton U.	127	4,615	4,129	4,044	3,142	4,615	4,129	4,044	3,142
U. California, Merced	128	2,259	2,649	2,190	3,101	1,399	1,699	1,387	2,119
U. Cincinnati	129	4,027	4,352	3,673	3,078	2,479	2,643	2,483	2,036
Tulane U.	130	4,563	3,866	3,327	2,986	2,893	2,218	1,594	1,971
Baylor U.	131	2,069	2,585	2,866	2,968	640	1,085	1,213	1,136
North Carolina Central U.	132	3,603	2,850	1,881	2,878	3,603	2,850	1,881	2,834
Colorado State U., Fort Collins	133	3,057	2,772	2,837	2,855	2,676	2,649	2,140	2,101
U. South Carolina, Columbia	134	3,132	2,941	2,203	2,806	2,479	2,335	1,774	2,264
CUNY, Advanced Science Research Center	135	235	329	1,640	2,778	183	232	1,252	2,096
U. Maryland, Baltimore County	136	1,498	2,037	2,742	2,753	1,233	1,654	2,261	2,300
U. North Carolina, Charlotte	137	2,543	2,282	2,804	2,742	2,033	1,454	1,770	1,901
U.S. Air Force Academy	138	2,730	844	2,603	2,714	2,128	249	2,603	2,714
U. Georgia	139	2,425	3,331	1,053	2,701	588	538	722	792
U. New Hampshire	140	933	1,423	1,717	2,672	819	900	1,119	2,283

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Kent State U.	141	2,641	2,636	2,205	2,591	1,969	1,670	1,355	1,617
California State U., Northridge	142	2,387	1,865	2,397	2,567	2,341	1,788	2,312	2,373
Rensselaer Polytechnic Institute	143	5,158	4,705	4,936	2,554	2,290	2,699	1,913	1,151
California Polytechnic State U., San Luis Obispo	144	1,648	1,536	2,783	2,494	519	572	926	937
U. Alabama, Birmingham	145	2,410	2,675	2,419	2,491	1,915	2,340	2,140	2,214
Illinois Institute of Technology	146	3,330	3,188	2,772	2,476	2,986	2,897	2,453	2,125
Rockefeller U.	147	2,692	2,870	2,607	2,464	581	595	350	583
Utah State U.	148	2,192	1,919	2,318	2,462	829	1,294	1,586	1,661
U. Vermont	149	751	912	793	2,441	449	496	646	1,383
SUNY, U. Albany	150	2,486	1,911	2,156	2,427	250	224	279	533
Southern Methodist U.	151	2,309	2,237	1,900	2,378	2,184	2,050	1,701	1,934
Central Michigan U.	152	1,669	2,121	2,527	2,366	1,072	1,527	2,168	1,943
Oakland U.	153	1,003	890	2,343	2,300	817	743	933	886
Michigan Technological U.	154	1,839	1,930	2,215	2,169	346	299	440	640
U. Texas, El Paso	155	2,002	1,385	1,068	2,155	1,258	731	648	1,024
U. Kansas	156	3,714	2,578	2,269	2,108	3,339	2,424	2,233	1,983
Brigham Young U., Provo	157	1,869	1,963	2,696	2,034	1,552	1,851	2,216	1,676
Stevens Institute of Technology	158	1,323	1,469	2,045	1,824	1,166	1,297	1,960	1,648
Boston C.	159	2,096	1,783	2,384	1,814	927	1,470	1,809	1,471
Embry-Riddle Aeronautical U.	160	189	631	724	1,787	154	265	490	902
Case Western Reserve U.	161	3,044	2,799	2,476	1,767	2,688	2,405	2,170	1,610
U. Alabama, Huntsville	161	2,743	1,656	1,724	1,767	1,845	869	741	886
U. Puerto Rico, Rio Piedras	163	2,629	1,930	2,639	1,653	1,742	1,197	1,587	1,067
Tufts U.	164	1,316	467	234	1,621	1,216	467	216	1,587
San Diego State U.	165	1,795	1,344	1,422	1,561	373	408	507	440
U. South Dakota	166	936	1,220	2,089	1,555	365	456	1,313	976
U. Denver	167	784	1,632	1,147	1,456	662	1,065	641	795
Jackson State U.	168	1,446	1,637	1,586	1,451	1,282	1,417	1,446	1,314
New Mexico State U.	169	1,999	1,656	1,762	1,386	1,789	1,493	1,532	1,132
Florida A&M U.	170	3,496	4,455	3,463	1,371	3,239	4,254	3,337	1,327
Wake Forest U.	171	1,556	1,337	1,680	1,366	1,416	1,278	1,344	1,103
Florida Institute of Technology	172	1,556	759	650	1,364	1,494	504	428	1,193
San Francisco State U.	173	1,129	1,169	1,300	1,351 i	739	769	958	998 i
Worcester Polytechnic Institute	173	617	1,061	3,269	1,351	447	551	525	582
Lehigh U.	175	2,076	1,897	1,195	1,348	1,392	1,096	845	868

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Oregon State U.	176	573	906	1,204	1,310	571	812	1,112	1,304
U. Louisiana, Lafayette	177	2,490	2,146	460	1,283	38	159	22	44
Wright State U.	178	2,021	2,045	1,373	1,250	1,676	1,511	1,179	1,014
Virginia Commonwealth U.	179	928	1,320	1,086	1,249	717	1,190	983	901
U.S. Naval Academy	180	1,101	950	1,468	1,217	886	791	1,370	1,193
U. Massachusetts, Boston	181	905	1,021	1,380	1,214	593	502	552	533
CUNY, Hunter C.	182	1,260	1,285	1,625	1,194	624	800	1,186	973
Wesleyan U.	183	1,541	1,030	1,366	1,130	922	805	1,037	791
U. North Dakota	184	0	813	887	1,123	0	78	96	129
North Carolina Agricultural and Technical State U.	185	929	891	1,263	1,116	902	855	1,211	1,049
New Mexico Institute of Mining and Technology	186	621	821	1,520	1,074	616	808	1,478	1,061
Clark U.	187	542	421	350	1,054	315	245	180	586
Florida Atlantic U.	188	323	472	560	991	145	236	285	481
Louisiana Tech U.	189	1,302	1,038	1,034	980	542	362	317	252
Dillard U.	190	1,053	785	606	959	703	352	122	646
Northern Arizona U.	191	23	324	538	941	0	89	212	352
Prairie View A&M U.	192	1,197	1,517	783	932	402	248	225	97
U. San Diego	193	243	292	573	918	109	172	353	496
U. California, San Francisco	194	342	349	370	917	0	0	4	0
U. Missouri, Kansas City	195	1,564	1,637	1,368	894	1,052	1,075	1,019	726
Bowling Green State U.	196	657	722	593	849	305	253	233	590
George Mason U.	197	790	487	445	842	550	408	311	700
California State U., San Marcos	198	203	330	225	841	203	330	225	841
Creighton U.	199	862 i	644 i	957 i	837 i	513 i	326 i	576 i	529 i
East Carolina U.	200	538	596	591	814	179	214	133	305
Texas A&M U.-Commerce	201	423	898	643	810	350	754	531	688
U. New Orleans	202	493	611	757	803	392	508	605	551
U. Memphis	203	359	474	578	791	16	182	230	353
Cleveland State U.	204	436	555	639	786	116	174	277	409
Christopher Newport U.	205	402	368	656	766	402	344	470	518
Howard U.	206	839	601	719	762	789	525	559	612
U. of the Virgin Islands	207	0	0	0	749	0	0	0	749
Idaho State U.	208	3,570	4,072	3,126	742	1,994	2,413	1,686	394
Texas State U.	209	1,959	1,735	1,421	735	1,469	1,663	1,365	734
North Dakota State U.	210	797	482	764	732	334	382	288	197
Amherst C.	211	763	809	1,312	705	523	590	1,103	603

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
South Dakota School of Mines and Technology	212	941	1,163	1,098	693	827	1,003	1,098	693
SUNY, Geneseo	213	811	869	843	683	620	592	663	542
U. Wyoming	214	722	1,385	892	679	722	1,118	835	652
Clark Atlanta U.	215	362	0	461	671	357	0	455	662
Western Michigan U. and Homer Stryker M.D. School of Medicine	216	643	679	571	660	443	530	465	509
Norfolk State U.	217	682	396	311	650	682	396	311	650
California State U., Los Angeles	218	694	1,162	745 i	639	165	612	720	622
Southern U. and A&M C., Baton Rouge	219	1,231	964	716	634	1,206	822	573	427
CUNY, Graduate Center	220	8	0	353	630	0	0	330	435
San Jose State U.	221	595	397	461	626	578	391	455	615
Lewis and Clark C.	222	204	153	141	598	44	61	108	441
U. Texas Rio Grande Valley	223	327	330	285	595	217	317	283	594
Tennessee Technological U.	224	602	671	635	594	453	543	544	488
California State U., East Bay	225	ne	ne	ne	584	ne	ne	ne	221
Hope C.	226	381	398	614	560	357	343	598	444
U. Central Oklahoma	227	381	631	561	557 i	259	519	517	512 i
CUNY, C. Staten Island	228	260	701 i	777	542	260	540 i	659	542
Villanova U.	229	159	255	436	520	87	123	239	306
Indiana U.-Purdue U., Indianapolis	230	272	205	418	509	221	165	370	455
U. Massachusetts, Dartmouth	231	268	212	441	499	40	39	64	75
California State U., Fullerton	232	542	465	392	481	541	454	315	396
Bryn Mawr C.	233	863	775	635	462	237	306	335	55
CUNY, Queens C.	234	387	648	553	458	321	409	295	171
U. Dayton	235	1,311	1,030	539	438	1,283	1,013	525	428
U. Louisville	236	408	379	291	426	213	119	105	57
Western Kentucky U.	237	1,211	955	553	425	302	365	349	289
Portland State U.	238	525	90	195	418	275	38	85	344
CUNY, Lehman C.	239	210	360	129	409	210	360	0	409
Rutgers, State U. New Jersey, Newark	240	255	162	109	408	211	115	32	261
Clarkson U.	241	254	283	198	388	198	196	148	244
U. Puerto Rico, Mayaguez	242	1,023	1,121	380	367	697	754	287	292
Swarthmore C.	243	397	442	246	353	319	367	199	139
U. Colorado Denver and Anschutz Medical Campus	244	168	71	126	348	159	57	118	348
Alabama A&M U.	245	831 i	657 i	485 i	331 i	695 i	537 i	380 i	259 i

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southern Illinois U., Carbondale	246	908	624	378	327	494	299	269	243
Marquette U.	247	395	150	315	320	219	19	83	225
Williams C.	248	234	197	329	315 i	226	189	189	182 i
C. New Jersey	249	212	278	ne	312	209	278	ne	306
Missouri State U.	250	15	93	296	305	0	78	278	289
Texas Christian U.	251	343	135	149	299	219	102	0	175
James Madison U.	252	354	120	126	298	304	120	126	182
Kenyon C.	253	ne	373	410	291	ne	261	292	194
Kennesaw State U.	254	38	146	484	288	38	42	100	165
Yeshiva U.	255	0	0	0	286	0	0	0	286
Kettering U.	256	643	370	62	285	451	326	27	241
Harvey Mudd C.	257	305	126	309	284	141	20	72	96
California State U., Fresno	258	278	391	341	283	256	366	341	252
CUNY, Baruch C.	259	230	241	375	276	228	241	330	275
Rowan U.	259	385	496	576	276	157	344	465	194
Northern Kentucky U.	261	144	178	242	270	90	94	174	203
Oberlin C.	261	303	235	263	270	295	224	255	191
U.S. Military Academy	263	448	120	35	269	448	120	35	269
DePaul U.	264	152	185	187	267	97	111	111	205
U. Montana, Missoula	265	595	318	244	260	463	295	117	77
Drexel U.	266	1,728	2,312	1,663	258	1,201	1,733	1,303	0
U. Idaho	267	561	210	326	245	348	157	188	160
CUNY, John Jay C. of Criminal Justice	268	0	0	0	238	0	0	0	238
Morgan State U.	269	276	113	34	234	276	113	30	218
Vassar C.	270	75	501 i	113	232	75	501 i	109	147
Illinois State U.	271	130	157	184	229	128	123	145	220
East Tennessee State U.	272	168	293 i	171 i	227 i	159	193	140	188
Lafayette C.	272	131	146	183	227	130	146	182	205
Indiana U. Pennsylvania	274	92	140	126	218	89	105	82	175
Trinity U.	274	97	79	194	218	35	35	43	61
Morehouse C.	276	162	223	213	216	162	223	213	216
CUNY, York C.	277	ne	ne	123	214	ne	ne	123	181
CUNY, New York City C. of Technology	278	ne	30	347	212	ne	18	314	200
California State U., Sacramento	279	100	104	161	207	69	78	97	152
Boise State U.	280	219	219	256	202	207	167	214	94
Fisk U.	281	2,008	89	0	200	2,008	89	0	200
U. North Florida	282	318	225	179	197	109	97	100	88
CUNY, Brooklyn C.	283	198	72	187 i	193	156	28	113 i	118
Towson U.	284	153	584	446	191	80	555	401	50
U. Wisconsin-La Crosse	285	18	164	49	188	0	126	44	151
South Carolina State U.	286	708	743 i	175	182 i	708	739 i	175	182 i
Rhode Island C.	287	0	0	84	179	0	0	84	179

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Wisconsin-River Falls	288	77	33	ne	175	0	0	ne	174
Macalester C.	289	67	11	139	171	67	11	50	31
U. Tulsa	290	869	566	268	163	571	313	181	71
Bucknell U.	291	0 i	0	167	160 i	0 i	0	167	160 i
Saint Louis U.	292	140	105	205	156	0	89	67	67
U. Washington, Bothell	292	0	0	256	156	0	0	215	156
Bates C.	294	393	246	282	155	184	143	141	94
California State U., Chico	295	0	78	156	150	0	68	150	144
Colgate U.	296	269	185	133	147	70	100	34	19
Haverford C.	296	112 i	54 i	91 i	147 i	38	17	37	49
Santa Clara U.	298	196	503	86	145	196	503	81	130
U. Colorado Colorado Springs	298	765	449	203	145	65	105	54	22
Humboldt State U.	300	78	106	115	144	52	69	48	76
Miami U.	301	25	124	199	142	4	86	153	116
C. Charleston	302	64	88	103	135	0	17	49	72
Bowdoin C.	303	117	115	250	131	115	108	89	125
Calvin U.	303	32	120	137	131 i	10	102	123	118 i
Reed C.	305	41	131	401	129	0	6	32	41
SUNY, C. Plattsburgh	306	184	305	369	126	129	261	259	110
U. Minnesota, Duluth	307	287	230	237	123	202	188	196	17
Duquesne U.	308	232	195	135	122	79	55	56	43
Indiana State U.	309	107	126	93	121	107	126	93	121
Georgia Southern U.	310	306	244	190	120	56	65	34	47
Black Hills State U.	311	580	388	363	116	373	370	331	91
Appalachian State U.	312	358	72	87	115	342	67	73	98
Eastern Michigan U.	313	29	22	40	114	0	10	24	31
Southeastern Louisiana U.	314	124	88	25	113	83	54	7	44
U. Richmond	315	429	189	132	112	330	117	99	98
U. North Carolina, Wilmington	316	242	90	52	110	205	47	51	110
Union C., Schenectady	316	101	268	201	110	0	193	170	81
Central Washington U.	318	97	125	178	109	85	118	170	103
Long Island U.	318	77	60	178	109	77	60	171	51
Willamette U.	320	88	117	77	108	58	100	45	4
Whitman C.	321	ne	ne	55	104	ne	ne	40	77
Occidental C.	322	93	62	23	103	93	62	23	70
Pomona C.	322	73	109	40	103	2	20	0	0
Smith C.	324	66	170	173	102	34	157	160	95
U. Rhode Island	325	52	104	95	100	18	89	85	79
West Chester U. Pennsylvania	326	197	391	149	98	92	31	0	0
U. Puget Sound	327	61	ne	ne	96	0	ne	ne	50
Hobart and William Smith Colleges	328	74	ne	122	95	69	ne	120	82

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
William Paterson U.	329	1	36	35	94	0	0	0	0
Wheaton C., Wheaton	330	30	56	74	93	4	17	74	66
U. North Georgia	331	30	71	4	91	28	71	0	0
California State Polytechnic U., Pomona	332	0	0	0	89	0	0	0	89
Colby C.	332	148	92	67	89	117	68	37	74
Mercer U.	334	0	81	83	87	0	0	0	0
Fort Hays State U.	335	ne	ne	82	86	ne	ne	20	21
U. Northern Iowa	335	152	26	18	86	145	26	14	86
Winston-Salem State U.	335	0	0	0	86	0	0	0	86
Milwaukee School of Engineering	338	86	49	69	85	86	49	69	0
Albion C.	339	110	72	69	84	53	31	50	50
Carleton C.	339	157	78	219	84	80	64	2	84
Chapman U.	341	1,415	86	55	81	916	0	0	71
Tougaloo C.	341	0	0	0	81	0	0	0	81
Gettysburg C.	343	47 i	39	54	80	33	10	25	41
U. Central Arkansas	343	385	266	149	80	232	232	136	76
Seattle U.	345	117	139	73	79	104	129	50	58
Franklin and Marshall C.	346	144	127	122	78	134	78	54	48
St. John's U., New York	347	124	63	22	76	0	0	0	0
C. Wooster	348	138	88	179	75	118	57	100	35
Mercyhurst U.	348	17 i	ne	74 i	75 i	17 i	ne	47 i	48 i
Sam Houston State U.	350	29	37	78	74	27	23	69	72
U. Maryland Center for Environmental Science	351	0	17	55	72	0	17	55	72
Azusa Pacific U.	352	78	82	81	68	0	0	28	0
Eastern Washington U.	353	36	33	34	66	36	33	34	66
Saint Joseph's U.	353	127	90	300	66	40	2	0	0
Grambling State U.	355	365	267	129	65	235	137	52	7
U. Wisconsin-Green Bay	356	32 i	45 i	64 i	63 i	25 i	24 i	36 i	39 i
U. of St. Thomas (MN)	357	84	47	22	61	66	38	19	41
Claremont McKenna C.	358	0	0	0	59	0	0	0	59
Florida Polytechnic U.	358	ne	ne	68	59	ne	ne	0	0
Grinnell C.	360	200	419	364	58	0	0	0	0
U. Nebraska, Omaha	360	232	189	167	58	210	179	130	0
U. Wisconsin-Oshkosh	362	53 i	56 i	55 i	56 i	46 i	48 i	47 i	48 i
St. Edward's U.	363	390	255	164	55	320	160	150	55
U. of the Pacific	363	106	63	53	55	106	63	53	55
Fairfield U.	365	139	41	81	52	9	41	81	42
Loyola U., Chicago	365	63	17	36	52	0	0	0	0

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Biola U.	367	42 i	44 i	49 i	50 i	34 i	34 i	38 i	39 i
Claflin U.	367	0	0	7	50	0	0	7	50
U. North Carolina, Greensboro	367	218	106	125	50	61	106	125	5
U. Northern Colorado	367	61	60	19	50	26	26	0	0
Skidmore C.	371	26	12	78	49	4	0	35	41
Fayetteville State U.	372	524	300	200	48	524	300	200	48
U. Puerto Rico, Cayey	372	0	97	57	48	0	4	57	48
U. of the Sciences Philadelphia	374	58	61	30	47	31	1	1	25
Davidson C.	375	47	0	70	45	0	0	7	45
Lipscomb U.	375	ne	ne	ne	45 i	ne	ne	ne	35 i
Hamilton C.	377	53	165	116	44	5	3	12	3
Montclair State U.	378	0	0	0	43	0	0	0	0
Salisbury U.	378	18	17	13	43	7	4	0	0
U. Wisconsin-Stevens Point	378	25 i	31 i	37 i	43	25 i	31 i	37 i	43
Saint Michael's C.	381	45	61	60	42	45	61	60	42
Pacific U.	382	627	161	223	41	610	107	169	21
Eastern Kentucky U.	383	0	0	0	40	0	0	0	35
Western Illinois U.	384	0	0	19	39	0	0	19	39
Texas A&M International U.	385	53	8	3	38	43	1	0	38
C. of Saint Benedict	386	91	39	39 i	37 i	0	0	0 i	0 i
Colorado C.	386	288	84	19	37	266	60	14	15
Arkansas State U., Jonesboro	388	232	167	66	36	165	120	47	33
U. Hawaii, Hilo	388	362	383	103	36	362	383	103	36
Weber State U.	388	ne	ne	ne	36	ne	ne	ne	21
Saint John's U., Collegeville	391	81	35	35 i	33 i	0	0	0 i	0 i
South Dakota State U.	391	11	4	53	33	5	4	53	32
Rutgers, State U. New Jersey, Camden	393	0	0	6	32	0	0	0	0
Tuskegee U.	393	190 i	154	32	32	154	154	32	32
St. Olaf C.	395	58	30	0	31	0	0	0	7
Stockton U.	396	ne	0	0	28	ne	0	0	0
Elon U.	397	99	108	49	27	0	0	0	0
U. San Francisco	397	26	16	28	27	0	0	0	0
Lamar U.	399	12	32	24	26	0	21	0	0
Northern Michigan U.	399	0	0	0	26	0	0	0	0
U. South Alabama	399	57	0	0	26	36	0	0	25
California State U., Dominguez Hills	402	12	59	40	25	0	45	32	3
SUNY, Oswego	403	7	13	3	23	0	0	0	0
Youngstown State U.	403	164	27	12	23	164	18	5	20
Ithaca C.	405	ne	ne	ne	22	ne	ne	ne	0
Mount Holyoke C.	405	93	0	0	22	0	0	0	0
Pennsylvania State U., Behrend	405	56	49	75	22	27	15	16	15
Murray State U.	408	30	28	21	20	0	0	0	0

TABLE 50

Total and federally financed higher education R&D expenditures in physics, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Middlebury C.	409	222	0	114	19	222	0	104	0
California Lutheran U.	410	ne	ne	10	17	ne	ne	0	0
U. Nebraska, Kearney	410	132	7	65	17	27	5	8	9
U. Minnesota, Morris	412	19	ne	10	16	19	ne	0	0
Austin Peay State U.	413	46	155	47	13	19	142	36	13
Southern Connecticut State U.	413	588	327	92	13	534	279	53	0
Furman U.	415	0	0	2	12	0	0	2	1
Marshall U.	416	16	16	5	11	8	2	0	0
St. Cloud State U.	416	17	18	11	11	5	1	2	3
Grand Valley State U.	418	23	35	33	10	21	26	27	9
Ball State U.	419	14	11	22	9	6	0	2	0
U. Michigan, Flint	420	23	31	14	8	17	19	1	0
U. Southern Mississippi	421	10	281	307	7	10	281	307	7
Dickinson C.	422	0	ne	14	6	0	ne	14	0
Lawrence Technological U.	422	16	0	0	6	16	0	0	6
Andrews U.	424	ne	ne	1	5	ne	ne	0	0
California State U., Stanislaus	424	4	0	5	5	0	0	0	0
Midwestern State U.	424	ne	ne	ne	5	ne	ne	ne	0
SUNY, C. Brockport	424	5	4	15	5	0	0	6	2
U. of Mary Washington	424	ne	136	16	5	ne	0	16	5
Central Connecticut State U.	429	25	ne	17	4	13	ne	0	0
Minnesota State U., Mankato	429	5	19	0	4	0	19	0	2
Trinity C., Hartford	429	7	3	5	4	0	0	0	0
Pittsburg State U.	432	10	0	2	3	10	0	2	3
Purdue U., Fort Wayne	432	17	10	0	3	3	6	0	0
Stephen F. Austin State U.	432	1	3	0	3	0	0	0	0
Suffolk U.	432	111 i	ne	ne	3	56 i	ne	ne	0
SUNY, Buffalo State	432	43	23	19	3	43	23	17	2
U. Missouri, Saint Louis	432	181	139	17	3	135	136	14	0
Hofstra U.	438	9	10	4	2	0	0	0	0
Loyola Marymount U.	438	104	17	54	2	0	0	0	0
Pepperdine U.	438	7	6	11	2	0	0	0	0
U. New Haven	438	0	4	4	2	0	0	0	0
La Sierra U.	442	12	5	1	1	0	0	0	0
Texas A&M U.-Kingsville	442	64	33	48	1	57	28	46	0
All other surveyed institutions	-	62,401	61,859	3,371	0	45,374	43,143	1,820	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $220,490 thousand imputed for total and $214,141 thousand reported for federally financed R&D expenditures in physics in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	1,244,640	1,258,635	1,326,304	1,357,081	764,737	759,524	789,562	808,565
U. North Carolina, Chapel Hill	1	52,050	48,298	46,808	41,741	31,115	29,044	27,887	23,840
Pennsylvania State U., University Park and Hershey Medical Center	2	27,175	30,520	38,984	40,599	19,283	19,907	28,216	26,894
Florida International U.	3	20,528	24,056	29,269	34,642	10,639	11,967	14,279	18,163
U. Minnesota, Twin Cities	4	31,837	37,381	34,448	31,954	23,748	28,334	25,727	24,430
New York U.	5	25,636	25,145	30,002	28,468	22,040	21,216	24,420	22,886
U. Georgia	6	19,288	20,028	24,590	25,773	10,027	10,818	13,105	15,401
U. Connecticut	7	17,602	17,741	18,641	21,553	9,414	9,900	11,570	13,270
Boston U.	8	18,863	21,097	21,872	20,413	11,826	13,174	14,224	12,411
U. Michigan, Ann Arbor	8	21,636	19,865	19,157	20,413	8,815	6,500	6,704	6,479
San Diego State U.	10	12,865	12,943	14,071	20,222	8,736	8,752	9,047	13,516
U. California, San Diego	11	17,837	20,042	18,932	20,113	13,506	13,691	12,280	13,624
San Jose State U.	12	18,976	18,313	20,152	19,670	18,201	17,668	19,428	19,256
U. California, Berkeley	13	14,019	18,004	17,955	19,329	6,988	7,773	8,122	9,515
U. California, Los Angeles	14	17,453	17,611	17,044	19,087	10,922	12,437	11,104	13,035
Stanford U.	15	17,832	18,099	20,091	18,866	8,879	10,006	11,686	10,782
Florida State U.	16	24,068	15,647	15,866	17,715	13,760	9,241	9,145	9,763
U. Pittsburgh, Pittsburgh	17	21,224	15,475	14,154	17,680	19,209	13,351	11,591	14,586
Arizona State U.	18	18,374	19,187	18,986	17,645	11,661	11,266	10,145	9,253
U. Oregon	19	12,553	14,099	15,658	17,505	10,585	11,990	13,714	15,759
U. Texas M. D. Anderson Cancer Center	20	18,189	16,080	17,247	16,860	4,898	4,381	3,601	3,013
Michigan State U.	21	11,292	14,454	17,834	16,399	5,064	7,564	9,257	8,921
U. Kansas	22	7,040	15,843	17,811	16,106	4,156	5,394	6,360	5,579
U. Illinois, Urbana-Champaign	23	16,169	14,814	14,473	16,086	8,718	7,817	8,307	10,020
U. Pennsylvania	24	21,397	18,872	14,222	15,854	11,641	10,032	7,085	9,563
Vanderbilt U. and Vanderbilt U. Medical Center	25	14,313	15,501	15,490	15,682	7,000	7,743	8,303	7,496
CUNY, Hunter C.	26	10,859	14,303	15,915	14,507	9,697	11,143	12,178	12,455
U. Southern California	27	8,618	8,241	9,153	14,234	5,623	6,292	5,846	4,913
U. Houston	28	13,951	14,948	12,218	13,999	8,826	9,627	9,647	9,765
U. Miami	29	14,567	14,715	11,163	13,896	8,800	7,905	7,514	10,048
Dartmouth C. and Dartmouth Hitchcock Medical Center	30	7,652	9,185	10,892	13,239	3,021	4,153	6,723	9,013
Indiana U., Bloomington	31	18,119	16,086	14,744	12,822	10,419	9,578	7,756	6,822
U. Nebraska, Lincoln	32	9,387	9,871	10,968	12,761	4,244	4,979	5,671	5,396
SUNY, Binghamton U.	33	10,117	10,263	11,007	12,263	4,184	4,395	4,231	3,526
U. Wisconsin-Madison	34	9,902	10,555	12,498	12,090	5,995	6,198	7,166	7,467
U. Colorado Boulder	35	11,027	8,990	13,092	11,982	9,992	8,298	10,775	10,667
Cornell U.	36	11,558	11,245	12,682	11,516	4,380	4,312	5,101	4,826
Carnegie Mellon U.	37	9,362	9,386	10,601	11,507	7,362	8,180	9,163	9,841
U. California, Irvine	38	4,576	6,983	8,961	11,448	1,805	2,381	2,623	2,909
Temple U.	39	11,273	12,495	8,832	11,418	8,730	8,863	6,473	6,930
U. Utah	40	4,640	5,683 i	18,431 i	11,198 i	2,986	3,596	9,100	4,900
U. Central Florida	41	3,289	4,867	5,230	10,968	1,739	1,314	2,320	7,631
U. Florida	42	8,082	9,863	10,208	10,922	4,839	6,452	6,412	7,199
Virginia Commonwealth U.	43	11,843	11,581	11,299	10,743	9,877	9,523	9,805	9,648

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Texas Tech U.	44	10,684	10,206	9,824	10,670	509	347	912	882
U. Texas, Austin	45	9,784	11,714	12,544	10,435	7,885	9,322	9,942	7,422
U. Virginia, Charlottesville	46	13,965	8,894	9,245	10,335	7,705	4,321	4,411	4,395
U. South Carolina, Columbia	47	8,125	8,643	8,025	9,768	6,561	6,570	5,639	5,018
Yale U.	48	12,115	11,953	13,211	9,684	7,321	6,973	6,775	5,983
U. Maryland[a]	49	na	na	9,617	9,288	na	na	7,917	7,725
Princeton U.	50	8,948	6,295	6,482	9,240	3,937	2,345	3,443	5,239
Oklahoma State U., Stillwater	51	2,676	3,557	9,018	9,085	629	980	2,440	2,900
Duke U.	52	6,777	9,647	11,226	8,953	4,638	7,396	8,855	6,104
Georgia State U.	53	8,171	8,848	7,333	8,952	3,325	3,112	2,741	4,236
Northeastern U.	54	5,733	7,239	7,738	8,863	4,391	5,763	6,361	6,922
U. Iowa	55	7,556	7,115	8,086	8,817	5,955	5,850	6,336	7,028
U. Washington, Seattle	56	10,299	10,953	9,552	8,802	7,985	8,712	7,693	7,112
Rutgers, State U. New Jersey, New Brunswick	57	5,792	6,453	7,700	8,256	2,790	3,669	2,785	3,961
U. Chicago	58	8,229	8,360	7,744	8,006	6,306	6,574	5,466	5,959
U. Missouri, Columbia	59	8,234	10,169	8,771	7,898	6,921	8,870	7,321	6,323
Brown U.	60	5,688	4,782	6,801	7,889	5,347	4,560	6,658	7,262
U. Massachusetts, Amherst	61	6,263	7,357	9,195	7,836	3,682	4,034	5,672	5,429
Uniformed Services U. of the Health Sciences	62	11,749	9,809	10,574	7,672	8,080	7,082	8,150	5,704
Ohio State U.	63	7,456	8,509	7,861	7,542	5,568	6,438	6,154	5,681
U. Delaware	64	4,553	4,409	5,486	7,485	3,462	3,554	4,086	5,755
Purdue U., West Lafayette	65	6,289	6,545	6,192	7,176	4,019	4,176	4,017	4,932
U. New Mexico	66	8,856	8,793	6,938	6,827	6,165	6,444	5,079	5,505
Washington U., Saint Louis	67	5,603	5,578	6,129	6,052	3,795	4,284	5,167	4,887
Johns Hopkins U.[b]	68	3,753 i	3,702 i	4,995 i	5,918 i	2,791	2,943	4,191	5,066
U. Denver	69	3,077	5,096	5,002	5,870	2,233	3,826	3,602	4,092
U. Rochester	70	7,042	6,526	5,573	5,576	5,862	5,742	4,610	4,341
U. Tennessee, Knoxville[c]	71	1,595	4,243	4,382	5,465	881	1,050	1,444	1,882
U. Memphis	72	4,579	5,044	6,101	5,455	832	1,040	1,019	1,164
U. Notre Dame	73	5,577	4,863	4,887	5,450	3,165	2,759	3,138	3,845
U. Nevada, Reno	74	2,952	4,947	5,429	5,430	2,491	3,212	3,400	2,469
U. Texas, El Paso	75	3,245	3,962	10,393	5,285	1,460	1,255	1,874	1,603
Texas A&M U., College Station and Health Science Center	76	3,510	3,159	3,538	5,248	1,072	1,120	1,508	2,550
Columbia U. in the City of New York	77	3,645	3,456	4,552	5,234	2,968	2,778	3,758	4,286
Kansas State U.	78	3,781	6,574	6,005	5,215	2,623	5,210	4,576	3,998
U. Alabama, Birmingham	79	5,558	5,355	4,933	5,164	4,932	4,796	4,353	4,434
SUNY, U. Buffalo	80	3,820	4,908	4,752	5,113	2,608	3,485	3,371	3,537
Harvard U.	81	8,711	8,362	6,829	5,099	3,550	3,078	3,436	2,242
SUNY, U. Albany	82	4,239	3,154	4,389	4,982	558	535	927	1,148
SUNY, Stony Brook U.	83	4,542	4,034	4,703	4,946	3,354	2,921	3,043	3,725
U. California, Santa Barbara	84	6,415	5,517	5,299	4,929	3,428	3,455	3,927	3,807
Virginia Polytechnic Institute and State U.	85	4,359	4,350	4,286	4,899	2,402	2,444	2,046	2,338
Emory U.	86	4,400	4,975	5,399	4,817	3,578	4,138	4,279	3,989
Rice U.	87	4,026	3,182	3,821	4,798	3,009	2,276	2,524	3,320

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Kent State U.	88	3,343	3,891	4,410	4,776	1,357	1,725	2,342	2,684
U. Texas, San Antonio	89	1,006	1,015	1,262	4,716	404	658	662	2,836
U. South Florida, Tampa	90	15,380	4,843	4,305	4,710	10,091	1,613	1,094	928
Utah State U.	91	5,138	3,464	3,787	4,698	2,326	1,143	1,630	2,430
Indiana U.-Purdue U., Indianapolis	92	4,139	3,954	4,165	4,592	3,005	3,126	3,443	4,047
U. North Texas, Denton	93	1,763	2,881	4,375	4,489	597	1,792	1,592	900
Boston C.	94	3,156	3,549	3,837	4,452	1,834	2,419	2,284	2,343
U. Wisconsin-Milwaukee	95	3,006	4,114	3,909	4,404	2,415	3,085	2,893	3,125
U. Massachusetts, Boston	96	3,356	2,932	4,622	4,361	1,969	2,200	2,604	2,198
Georgia Institute of Technology	97	7,910	4,033	3,550	3,943	4,126	2,379	1,505	1,899
Washington State U.	98	4,060	3,543	3,190	3,875	1,745	1,443	1,003	1,813
Iowa State U.	99	6,041	12,694	9,858	3,786	2,253	3,342	3,913	890
Syracuse U.	100	4,689	5,065	4,426	3,771	1,937	2,053	1,996	1,585
U. Nevada, Las Vegas	101	2,707	1,528	2,982	3,767	1,693	717	454	240
Northwestern U.	102	4,177	3,923	4,157	3,706	2,948	2,403	2,469	2,438
U. Illinois, Chicago	103	4,469	5,607	4,352	3,621	2,410	3,616	2,901	2,253
Rensselaer Polytechnic Institute	104	1,895	2,433	3,151	3,568	1,773	2,062	2,406	2,676
CUNY, John Jay C. of Criminal Justice	105	2,745	2,949	2,082	3,546	1,148	770	688	1,821
U. Kentucky	106	4,542	4,110	4,047	3,537	3,302	3,156	2,678	2,882
Brandeis U.	107	2,390 i	2,673	2,485	3,351	1,908	2,149	2,086	3,125
DePaul U.	108	2,828	2,841	2,812	3,343	2,348	2,208	2,373	2,974
Colorado State U., Fort Collins	109	3,378	4,324	3,860	3,255	2,549	3,409	3,357	3,000
George Mason U.	110	2,947	3,014	3,143	3,196	2,097	2,218	2,162	1,696
U. Vermont	111	1,332	1,333	1,773	3,084	1,045	1,117	1,310	1,641
George Washington U.	112	2,903	3,086	2,457	3,074	1,904	2,240	1,658	2,257
U. Alabama, Tuscaloosa	113	3,394	2,889	2,931	3,030	2,225	1,627	1,406	1,329
U. California, Davis	114	2,313	2,256	2,740	3,022	1,512	1,530	1,626	1,153
U. California, Riverside	115	5,150	4,638	4,923	2,950	3,776	3,369	2,997	2,189
U. Arizona	116	2,561	2,628	2,670	2,900	1,466	1,479	1,610	1,971
Drexel U.	117	4,002	4,295	3,555	2,852	2,572	2,422	2,436	1,979
Auburn U., Auburn	118	1,572	1,871	2,457	2,824	561	472	396	659
U. North Carolina, Greensboro	119	3,884	3,062	3,471	2,805	2,950	2,007	2,073	2,188
North Dakota State U.	120	3,630	1,979	3,077	2,798	1,385	1,465	1,232	1,078
East Tennessee State U.	121	640	2,695 i	2,381 i	2,755 i	187	170	161	40
Baylor U.	122	568	400	906	2,726	70	0	143	384
Georgetown U.	123	2,413	2,404	2,741	2,615	1,096	1,206	1,456	1,358
North Carolina State U.	124	3,550	3,443	3,071	2,479	1,556	1,736	1,754	1,236
Tufts U.	125	1,575	1,811	1,739	2,420	1,379	1,442	1,351	2,074
Florida Atlantic U.	126	2,938	2,820	2,391	2,306	1,312	1,448	1,358	1,167
American U.	127	2,474	3,026	2,564	2,248	970	1,651	1,084	702
Rutgers, State U. New Jersey, Newark	128	1,114	1,590	2,169	2,132	759	1,150	1,608	1,293
Montclair State U.	129	188	283	927	2,060	117	250	251	174
U. Rhode Island	130	1,507	2,030	1,483	2,059	679	944	514	705

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Louisville	131	1,571	1,445	1,662	2,050	633	671	619	725
Mississippi State U.	132	1,418	1,498	1,480	2,044	430	350	514	491
U. Maryland, Baltimore County	133	1,168	2,019	2,046	1,973	685	1,020	1,374	1,219
Rush U.	134	3,216	2,824	2,566	1,944	3,090	2,733	2,414	1,905
Tulane U.	135	1,464	1,915	2,342	1,942	758	844	1,248	1,589
U. Colorado Denver and Anschutz Medical Campus	136	387	1,624	1,933	1,921	364	1,214	1,598	1,455
Howard U.	137	2,467	2,434	1,968	1,878	2,252	2,048	1,335	1,280
Ohio U.	138	2,828 i	2,001 i	2,031	1,827	1,353	1,012	1,254	1,224
California State U., San Bernardino	139	3,663	3,461	2,708	1,775	1,440	749	383	594
West Virginia U.	140	2,101	2,232	2,041	1,773	1,449	1,538	1,380	1,195
Portland State U.	141	1,425	1,418	1,400	1,766	980	882	1,297	1,652
U. Massachusetts, Lowell	142	1,060	1,575	1,719	1,746	170	865	862	921
U. California, Merced	143	802	724	1,284	1,712	365	90	44	204
Miami U.	144	1,452	1,186	1,368	1,685	920	637	819	1,212
U. Cincinnati	145	2,791	2,388	1,746	1,667	1,414	1,658	1,114	1,068
Florida Institute of Technology	146	941	1,874	1,813	1,652	552	873	728	537
Fordham U.	147	3,601	3,131	2,095	1,632	3,103	2,781	1,768	1,365
U. Oklahoma, Norman and Health Science Center	148	1,137	1,351	1,395	1,608	985	968	1,250	987
Wright State U.	149	1,293	1,925	2,736	1,525	935	1,495	2,436	1,303
Loyola Marymount U.	150	940	1,351	1,441	1,515	127	356	436	447
U. North Dakota	151	1,613	1,640	1,135	1,506	311	387	149	268
California State U., Long Beach	152	3,128	1,754	1,660	1,465	2,769	1,444	1,425	1,410
Wayne State U.	153	3,698	1,730	1,584	1,464	2,327	745	761	802
Southern Methodist U.	154	582	789	1,093	1,457	368	323	481	1,150
Bowling Green State U.	155	1,100	906	991	1,444	184	190	303	167
Old Dominion U.	156	1,443	1,564	1,126	1,419	1,163	1,332	724	828
U. South Florida, Saint Petersburg	157	1,526	1,253	1,394	1,413	685	655	690	637
Teachers C., Columbia U.	158	2,870	2,514	1,760	1,387	1,468	1,135	942	618
James Madison U.	159	25	13	146	1,379	0	0	0	0
San Francisco State U.	160	1,915	2,435	1,329	1,375 i	790	1,198	302	315 i
Barnard C.	161	1,547	1,335	1,359	1,343	1,461	1,146	1,260	1,198
U. Texas, Arlington	162	1,644	1,459	1,660	1,329	194	204	105	84
East Carolina U.	163	874	878	1,039	1,321	216	19	288	690
CUNY, Graduate School of Public Health and Health Policy	164	na	1,328	1,639	1,278	na	1,323	1,639	1,278
CUNY, Brooklyn C.	165	1,500	1,317	1,218 i	1,264	1,128	1,084	986 i	1,027
California State U., San Marcos	166	0	639	1,041	1,261	0	600	698	967
New School	167	5,632	2,911	1,726	1,249	1,822	1,186	1,318	444
CUNY, Queens C.	168	1,714	1,268	1,327	1,222	1,528	1,035	1,207	1,087
Western Washington U.	169	730	1,306	1,038	1,213	237	94	124	127
Long Island U.	170	9	19	45	1,189	0	18	41	50
U. Maine	171	185	113	852	1,183	59	57	67	243

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Case Western Reserve U.	172	2,152	1,772	1,812	1,155	1,023	909	613	670
Villanova U.	173	759	847	1,244	1,141	41	216	254	444
Marquette U.	174	725	929	1,371	1,140	403	222	363	202
Oregon State U.	175	1,253	1,442	1,318	1,115	1,090	1,166	1,179	947
Loyola U., Chicago	176	1,264	1,207	1,007	1,105	1,023	837	832	935
U. Missouri, Kansas City	177	577	458	1,257	1,064	50	0	435	288
Northern Illinois U.	178	798	1,260	1,034	1,057	636	756	704	732
Gallaudet U.	179	2,730	1,616	1,117	988	799	193	179	137
Davidson C.	180	415	345	351	975	339	231	244	758
Claremont Graduate U.	181	1,542 i	1,256 i	969	966	1,262 i	923 i	584	284
William Paterson U.	182	240	736	1,136	944	44	118	286	70
U. Texas Rio Grande Valley	183	21	196	635	917	0	196	22	0
Louisiana State U., Baton Rouge	184	573	802	1,119	902	142	93	213	180
Chapman U.	185	416	485	0	888	353	307	0	842
Azusa Pacific U.	186	938	785	742	885	160	28	23	0
U. New Hampshire	187	1,235	1,621	1,869	877	1,001	1,394	1,517	601
Wesleyan U.	188	1,177	926	991	871	680	663	687	692
Wake Forest U.	189	190	126	1,041	847	190	124	22	86
U. Montana, Missoula	190	125	700	840	791	101	523	416	327
U. Texas, Dallas	191	1,196	897	751	789	587	269	4	20
Northern Arizona U.	192	191	276	750	725	49	123	480	589
U. North Carolina, Charlotte	193	431	902	635	711	213	278	115	284
U. Arkansas, Fayetteville	194	1,347	1,222	782	707	805	549	222	135
CUNY, City C.	195	1,281	940	953	693	966	814	735	579
U. South Dakota	196	746	704	582	687	113	148	66	80
Western Kentucky U.	197	609	561	749	672	184	164	158	176
U. Wyoming	198	26	238	236	664	0	0	229	664
Cleveland State U.	199	865	893	644	653	22	176	69	69
Clemson U.	200	707	857	460	633	506	486	235	416
Indiana U. Pennsylvania	201	12	246	428	630	0	0	104	113
Clark U.	202	1,358	540	829	622	234	115	136	93
U. Mississippi	203	1,212	1,292	1,140	620	0	0	0	0
U. Tulsa	204	984	829	796	604	362	238	38	7
Sam Houston State U.	205	91	120	308	602	29	32	60	211
Nova Southeastern U.	206	613	966	552	596	574	882	455	374
Spelman C.	207	200	7	526	588	200	7	526	588
Mount Holyoke C.	208	456	529	572	584	321	406	369	298
Suffolk U.	208	451 i	ne	ne	584	379 i	ne	ne	584
CUNY, Graduate Center	210	1,042	1,537	633	576	138	678	342	297
Louisiana Tech U.	211	359	420	474	571	22	32	73	92
Lehigh U.	212	406	239	448	561	333	201	376	396
Michigan Technological U.	213	826	962	455	551	130	127	141	130
Wichita State U.	214	656	712	399	543	493	568	263	375
Prairie View A&M U.	215	17	1,019	851	536	0	0	0	0
California State U., Bakersfield	216	385	585	191	504	177	384	0	372
Rowan U.	216	450	370	291	504	162	138	194	397
Central Michigan U.	218	221	281	413	497	14	86	250	309

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. New Orleans	218	173	207	335	497	90	18	0	0
Texas Woman's U.	220	445	635	587	488	0	0	58	0
U. California, Santa Cruz	221	813	854	721	487	356	408	316	98
Massachusetts Institute of Technology	222	1,909	1,985	517	484	816	840	325	277
California State U., Northridge	223	529	304	419	473	500	282	419	455
Reed C.	223	114	78	209	473	0	0	47	91
Saint Joseph's U.	225	525	462	472	457	0	35	39	54
U. Toledo	226	204	256	107	452	4	0	0	50
U. Hawaii, Manoa	227	259	274	279	441	242	253	226	315
Northern Kentucky U.	228	436	573	596	437	353	363	354	277
Duquesne U.	229	103	96	115	414	0	6	4	0
California State U., East Bay	230	ne	ne	ne	410	ne	ne	ne	26
U. Nebraska, Omaha	231	416	534	471	405	317	515	409	348
Saint Louis U.	232	521	480	333	393	421	369	317	300
Texas A&M U.-Commerce	233	76	116	334	374	0	0	98	164
Oklahoma State U., Center for Health Sciences	234	14	0	126	373	0	0	39	87
U. Alaska, Fairbanks	235	889	664	0	367	889	664	0	367
Southern Connecticut State U.	236	282	90	378	366	252	63	251	164
Montana State U., Bozeman	237	468	223	235	359	339	96	98	114
Catholic U. of America	238	267	105	294	347	214	84	190	237
Appalachian State U.	239	141	77	52	344	124	72	44	91
CUNY, C. Staten Island	240	130	345 i	389	342	99	278 i	340	284
Trinity U.	241	166	198	348	328	62	183	221	209
U. Akron	241	877	283	338	328	272	46	49	57
U. Louisiana, Lafayette	243	76	117	5,326	327	0	1	0	0
Skidmore C.	244	140	147	423	325	15	58	291	201
U. Idaho	245	56	110	135	320	41	88	83	199
William & Mary	245	270	211	191	320	74	67	123	234
Idaho State U.	247	766	535	656	318	706	472	590	247
U. Richmond	248	174	193	206	316	37	74	58	231
U. South Alabama	249	30	200	253	311	28	117	133	39
California State U., Sacramento	250	44	164	298	310	0	0	109	90
Wheaton C., Wheaton	251	0	43	363	299	0	0	0	0
Brigham Young U., Provo	252	1,084	809	488	298	975	726	339	219
Bryn Mawr C.	253	741	497	628	295	169	66	67	0
Tarleton State U.	254	0	0	65	294	0	0	0	0
New Mexico State U.	255	205	251	268	276	107	215	196	229
Creighton U.	256	362 i	269 i	303 i	259 i	135 i	88 i	126 i	116 i
Mercer U.	257	0	264	253	258	0	0	0	0
Winston-Salem State U.	258	0	0	0	252	0	0	0	252
Pomona C.	259	272	169	143	248	0	29	0	35
Middlebury C.	260	220	0	205	245	220	0	205	245
Tennessee State U.	260	328	481	364	245	316	481	361	243
Florida A&M U.	262	491	392	248	242	430	312	225	242
Hope C.	262	63	300	236	242	0	0	0	0

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Tennessee, Chattanooga	262	84	61	115	242	0	10	22	78
CUNY, Baruch C.	265	217	126	133	230	178	101	124	220
Pepperdine U.	266	145	92	220	229	0	0	79	103
Wellesley C.	266	103	77	0	229	39	77	0	229
Smith C.	268	394	491	521	226	232	348	421	164
U. Colorado Colorado Springs	268	1,001	1,100	591	226	934	991	571	226
Southern Illinois U., Carbondale	270	23	62	27	223	0	20	13	114
Texas State U.	270	76	231	232	223	21	147	138	94
Vassar C.	272	0	313 i	100	221	0	313 i	68	196
U. Alabama, Huntsville	273	124	175	183	218	0	0	0	0
Ball State U.	274	34	65	338	214	5	6	76	64
U. of St. Thomas (MN)	275	6	0	66	210	6	0	4	16
Connecticut C.	276	0	0	0	208	0	0	0	70
SUNY, Geneseo	276	51	89	262	208	0	42	121	102
West Chester U. Pennsylvania	278	392	205	295	205	0	0	0	32
Roger Williams U.	279	114	61	204	203	114	60	201	198
Northern Michigan U.	280	240	102	183	201	0	0	9	157
South Dakota State U.	281	0	0	223	192	0	0	122	145
Towson U.	281	105	86	104	192	0	0	0	71
Western Michigan U. and Homer Stryker M.D. School of Medicine	283	1,066	864	181	191	357	240	29	88
U. San Diego	284	199	225	223	190	129	177	186	106
Texas Christian U.	285	124	227	632	189	89	216	532	114
California Polytechnic State U., San Luis Obispo	286	51	61	90	185	42	35	3	0
Oakland U.	287	254	286	467	184	178	211	360	173
Eastern Michigan U.	288	323	126	94	183	96	22	0	0
U. North Carolina, Wilmington	288	242	280	314	183	215	253	297	179
U. Alaska, Anchorage	290	0	0	177	181	0	0	177	181
Bowdoin C.	291	0	0	0	180	0	0	0	158
SUNY, C. of Environmental Science and Forestry	291	0	0	0	180	0	0	0	0
U. Northern Colorado	293	468	515	242	178	332	218	193	140
Tennessee Technological U.	294	269	62	12	175	140	28	0	0
Alabama A&M U.	295	430 i	343 i	256 i	174 i	338 i	262 i	185 i	126 i
Bates C.	296	36	114	154	173	31	107	147	154
Grinnell C.	296	277	448	149	173	0	0	0	0
Haverford C.	296	202 i	148 i	147 i	173 i	167	106	103	93
Missouri U. of Science and Technology	296	73	109	190	173	0	0	7	134
U. Wisconsin-Eau Claire	296	146	171	203	173	146	171	157	122
Boise State U.	301	112	136	293	171	33	40	199	154
Rhode Island C.	301	172	128	51	171	169	103	17	155
Purdue U., Fort Wayne	303	149	39	97	168	149	39	71	104
U. South Florida, Sarasota-Manatee	304	156	149	147	158	0	0	0	0

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Claremont McKenna C.	305	109		140		65		157		24		41		16		94	
Lafayette C.	306	64		127		123		155		1		83		99		116	
U. Houston-Clear Lake	307	177		169		209		145		142		164		167		109	
Bucknell U.	308	229	i	239		152		144	i	111	i	107		41		39	i
U. West Florida	309	150		80		59		142		63		0		0		113	
Eastern Connecticut State U.	310	255		12		215		141		0		0		0		0	
U. Missouri, Saint Louis	311	224		411		317		140		0		147		81		48	
U. Detroit Mercy	312	76		86		124		135		73		73		121		124	
St. John's U., New York	313	101		96		55		126		37		11		22		41	
Willamette U.	313	129		80		107		126		101		68		95		121	
Oregon Institute of Technology	315	0	i	0	i	135	i	122	i	0	i	0		0	i	0	
U.S. Military Academy	316	149		70		28		120		149		70		28		12	
Swarthmore C.	317	125		96		85		117		29		6		0		64	
Colorado C.	318	42		52		84		115		0		0		0		0	
U. Michigan, Dearborn	319	115		25		82		112		0		0		0		0	
California State U., Los Angeles	320	56		44		93	i	110		0		0		0		25	
U. Texas, Tyler	320	105		45		37		110		0		0		0		0	
Elon U.	322	126		260		159		108		47		179		76		43	
California State U., Fullerton	323	312		227		92		106		293		227		60		66	
Saint Michael's C.	323	2		33		131		106		0		32		130		106	
Amherst C.	325	106		80		83		101		32		0		29		50	
Augusta U.	325	22		16		0		101		0		0		0		68	
U. Puerto Rico, Humacao	325	ne		0		48		101		ne		0		48		101	
Hamilton C.	328	314		59		155		100		0		0		0		0	
Texas A&M U.-Kingsville	329	163		101		113		98		113		79		107		86	
Colby C.	330	86		113		100		97		1		0		15		0	
Rutgers, State U. New Jersey, Camden	330	118		61		46		97		100		53		0		0	
U. North Florida	332	228		54		52		96		98		8		0		0	
California State U., Dominguez Hills	333	7		7		114		95		0		0		78		63	
U. Massachusetts, Dartmouth	334	344		188		156		94		0		0		0		0	
U. Central Arkansas	335	3		75		82		93		0		0		0		0	
Gettysburg C.	336	158		134		108		91		26		1		0		0	
Carleton C.	337	202		148		145		86		102		148		145		86	
Clarkson U.	337	16		14		22		86		0		0		0		0	
Rosalind Franklin U. of Medicine and Science	339	78		80		115		85		34		46		100		83	
Williams C.	339	229		184		91		85	i	51		0		0		0	i
Morgan State U.	341	0		0		62		83		0		0		61		82	
La Sierra U.	342	119		45		80		78		0		0		0		0	
Colgate U.	343	232		242		270		74		0		6		26		0	
Providence C.	344	172		231		122		70		143		197		111		70	
Lewis and Clark C.	345	118		112		87		69		0		0		0		0	
Franklin and Marshall C.	346	212		267		197		68		80		90		0		12	
Occidental C.	347	105		0		178		65		0		0		0		9	
Grand Valley State U.	348	31		30		47		63		0		0		10		37	

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Rochester Institute of Technology	349	218		174		22		60		157		118		11		43	
Minnesota State U., Mankato	350	77		0		0		59		0		0		0		59	
Middle Tennessee State U.	351	0		0		0		58		0		0		0		58	
Arkansas State U., Jonesboro	352	86		18		23		55		63		12		18		35	
Xavier U. Louisiana	352	13		0		47		55		13		0		47		28	
Oregon Health and Science U.	354	5,387		482		0		53		5,091		0		0		0	
U. Puerto Rico, Cayey	354	0		0		0		53		0		0		0		0	
Oberlin C.	356	164		163		58		51		134		86		27		51	
Christopher Newport U.	357	65		0		44		50		65		0		44		37	
Eastern Washington U.	358	0		26		47		47		0		0		0		0	
Albion C.	359	50		50		56		45		0		0		0		0	
St. Olaf C.	360	42		59		37		43		8		11		15		9	
C. Charleston	361	211		70		65		42		154		0		0		0	
Morehouse C.	361	0		0		61		42		0		0		61		42	
Dickinson C.	363	118		ne		41		41		88		ne		0		40	
Macalester C.	363	11		13		41		41		0		0		0		0	
SUNY, Buffalo State	365	79		62		35		40		73		36		33		27	
Purdue U., Northwest	366	15		1		8		39		0		0		0		0	
U. San Francisco	366	21		18		39		39		0		0		0		0	
C. Wooster	368	94		31		21		38		88		30		21		0	
Kennesaw State U.	368	0		9		769		38		0		0		0		11	
U. Wisconsin-Oshkosh	370	31	i	32	i	34	i	35	i	26	i	27	i	27	i	28	i
California State U., Fresno	371	86		57		103		34		86		56		80		34	
Texas A&M International U.	371	15		61		100		34		10		0		0		0	
U. Wisconsin-Green Bay	371	23	i	25	i	36	i	34	i	17	i	12	i	17	i	18	i
U. Dayton	374	121		62		43		33		0		0		0		0	
Citadel Military C. South Carolina	375	ne		ne		ne		32		ne		ne		ne		30	
U. of Mary Washington	375	ne		0		12		32		ne		0		0		12	
North Carolina Agricultural and Technical State U.	377	0		16		24		30		0		0		0		12	
U. Nebraska, Kearney	377	15		11		53		30		0		0		19		19	
Kenyon C.	379	ne		13		0		29		ne		0		0		0	
Missouri State U.	380	0		0		0		28		0		0		0		24	
U. Wisconsin-Platteville	380	32	i	ne		26	i	28	i	10	i	ne		6	i	6	i
C. of Saint Benedict	382	48		28		28	i	27	i	0		0		0	i	0	i
Georgia Southern U.	382	29		8		14		27		9		1		0		0	
Fairfield U.	384	288		9		0		26		0		0		0		0	
Furman U.	385	119		139		182		25		65		89		182		0	
Jackson State U.	385	0		0		69		25		0		0		69		25	
U. Minnesota, Duluth	385	36		6		1		25		0		0		0		0	
Whitman C.	385	ne		ne		12		25		ne		ne		0		0	
California Lutheran U.	389	ne		ne		39		24		ne		ne		0		0	
Mercyhurst U.	390	0	i	ne		23	i	23	i	0	i	ne		10	i	10	i
Saint John's U., Collegeville	390	43		25		25	i	23	i	0		0		0	i	0	i
U. New Haven	392	0		0		54		22		0		0		51		22	
Illinois State U.	393	19		39		18		20		0		0		0		0	

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
St. Edward's U.	393	75	10	24	20	20	0	0	0
U. South Carolina, Aiken	393	0	7	0	20	0	0	0	0
Salisbury U.	396	43	54	60	19	0	1	0	0
U. North Carolina, Asheville	397	212	101	0	18	212	101	0	18
Pace U.	398	23	25	10	16	0	0	0	0
California State U., Chico	399	56	28	52	15	56	0	0	0
Hofstra U.	399	12	22	19	15	0	0	0	0
Liberty U.	399	ne	ne	11	15	ne	ne	0	0
New Jersey City U.	399	0	200	200	15	0	200	200	12
Biola U.	403	16 i	13 i	13 i	13 i	8 i	8 i	8 i	8 i
California State U., Stanislaus	403	18	17	11	13	0	0	0	4
SUNY, Oswego	403	19	16	8	13	9	0	0	0
Eastern Kentucky U.	406	83	49	13	12	0	0	0	8
Lipscomb U.	406	ne	ne	ne	12 i	ne	ne	ne	7 i
Youngstown State U.	406	47	58	63	12	46	48	61	12
Pennsylvania State U., Behrend	409	62	45	46	11	0	0	1	0
Saginaw Valley State U.	409	16	15	9	11	0	0	0	0
Framingham State U.	411	6	8	ne	10	0	0	ne	10
Santa Clara U.	411	78	27	26	10	78	25	12	8
Sonoma State U.	411	ne	ne	ne	10	ne	ne	ne	0
Stephen F. Austin State U.	411	2	1	2	10	0	0	0	0
U. North Georgia	411	0	0	0	10	0	0	0	0
U. Wisconsin-La Crosse	411	23	33	26	10	0	0	0	0
Central Connecticut State U.	417	9	ne	12	8	0	ne	0	0
St. Cloud State U.	417	0	0	7	8	0	0	0	0
Western Illinois U.	417	4	22	16	8	0	0	0	0
C. New Jersey	420	1	2	ne	7	0	0	ne	0
Hobart and William Smith Colleges	420	14	ne	11	7	0	ne	0	0
Ithaca C.	420	ne	ne	ne	7	ne	ne	ne	0
U. Texas of the Permian Basin	420	0	0	ne	7	0	0	ne	6
U. New England	424	14	7	35	6	0	0	0	0
Bradley U.	425	9	19	3	5	0	0	0	0
Indiana State U.	425	0	0	13	5	0	0	0	0
Midwestern State U.	425	ne	ne	ne	5	ne	ne	ne	0
U. Puget Sound	425	28	ne	ne	5	0	ne	ne	0
Morehead State U.	429	112	105	109	4	112	105	109	0
Thomas Jefferson U.	429	0	0	0	4	0	0	0	0
Austin Peay State U.	431	0	0	0	3	0	0	0	0
Fort Hays State U.	431	ne	ne	0	3	ne	ne	0	0
Troy U.	431	ne	ne	ne	3	ne	ne	ne	0
La Salle U.	434	ne	ne	ne	2	ne	ne	ne	0
Pacific U.	434	570	0	0	2	566	0	0	0
U. Ana G. Mendez, Carolina	434	53	53	ne	2	0	0	ne	0
U. Illinois, Springfield	434	18	0	8	2	0	0	0	0
Central Washington U.	438	5	0	1	1	0	0	0	0
CUNY, Lehman C.	438	0	0	0	1	0	0	0	0

TABLE 51

Total and federally financed higher education R&D expenditures in psychology, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Delaware State U.	438	0	0	0	1 i	0	0	0	0 i
Murray State U.	438	0	3	0	1	0	0	0	0
Stockton U.	438	ne	0	0	1	ne	0	0	0
All other surveyed institutions	-	13,000	10,966	1,697	0	9,936	8,246	973	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total and zero reported for federally financed R&D expenditures in psychology in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	2,554,562	2,721,772	2,808,228	2,947,338	119,329	562,192	425,267	591,754	1,248,796
U. Michigan, Ann Arbor	1	191,304	192,919	191,336	187,421	6,178	31,063	25,466	25,750	98,964
Harvard U.	2	124,966	134,493	141,321	142,484	2,117	33,563	41,849	2,059	62,896
Arizona State U.	3	69,971	80,110	86,570	83,980	14,943	8,585	16,566	4,850	39,036
U. North Carolina, Chapel Hill	4	108,178	114,814	108,095	82,154	534	368	2,760	66,550	11,942
George Mason U.	5	35,286	51,552	57,278	67,966	77	55,028	2,354	2,018	8,489
U. Maryland[a]	6	na	na	66,691	64,636	567	1,180	5,673	4,945	52,271
U. California, Los Angeles	7	41,188	69,184	58,050	60,591	0	1,145	4,826	12,319	42,301
U. California, Berkeley	8	52,879	58,150	61,374	60,568	453	31,706	9,380	3,929	15,100
U. Southern California	9	34,390	39,649	52,212	59,926	282	1,250	374	861	57,159
U. Wisconsin-Madison	10	43,324	47,110	48,019	59,239	1,022	8,756	6,515	6,535	36,411
Princeton U.	11	45,670	50,613	58,918	57,913	541	9,014	27,497	15,765	5,096
Massachusetts Institute of Technology	12	32,081	38,166	46,532	51,477	0	30,800	3,185	38	17,454
U. Pennsylvania	13	48,579	49,776	49,088	51,374	1,167	6,148	4,260	23,377	16,422
Michigan State U.	14	23,813	25,610	27,037	50,407	984	22,755	2,799	3,269	20,600
Indiana U., Bloomington	15	35,749	38,541	44,681	47,029	1,533	3,707	12,193	10,934	18,662
Duke U.	16	32,382	34,186	34,532	36,760	1,742	3,790	770	10,273	20,185
Georgetown U.	17	31,825	33,270	37,195	35,933	0	365	31,775	403	3,390
Georgia Institute of Technology	18	4,871	5,764	5,773	33,645	0	905	0	1,628	31,112
Mississippi State U.	19	34,608	41,077	41,008	32,157	478	1,200	1,263	13,671	15,545
U. South Florida, Tampa	20	39,578	25,741	30,138	31,616	2,217	819	1,073	2,080	25,427
U. Minnesota, Twin Cities	21	35,824	35,191	35,278	31,218	191	6,218	6,691	15,108	3,010
Brown U.	22	12,079	18,539	24,887	30,782	310	1,153	2,754	1,109	25,456
New York U.	23	31,205	29,375	31,003	30,676	43	1,748	7,151	7,563	14,171
Texas A&M U., College Station and Health Science Center	24	26,008	28,983	30,686	29,389	3,961	6,300	6,638	2,070	10,420
U. California, Davis	25	26,537	24,402	27,167	28,486	0	10,182	2,972	1,608	13,724

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Pennsylvania State U., University Park and Hershey Medical Center	26	41,313	30,643	27,943	27,842	2,331	1,611	930	22,970	0
U. Oklahoma, Norman and Health Science Center	27	16,088	16,337	17,363	25,818	3,952	2,244	2,269	326	17,027
Cornell U.	28	44,774	31,266	29,183	25,622	257	2,418	1,391	9,156	12,400
George Washington U.	29	26,377	27,781	27,686	25,348	1,855	1,969	519	1,800	19,205
Stanford U.	30	23,316	24,772	24,038	24,770	291	3,415	7,490	334	13,240
Georgia State U.	31	25,676	24,915	23,970	24,697	490	10,954	2,119	4,295	6,839
U. Chicago	32	22,546	20,285	21,578	23,750	83	4,109	1,699	3,201	14,658
U. Georgia	33	21,987	23,147	20,857	23,737	1,282	9,602	1,851	2,336	8,666
Purdue U., West Lafayette	34	12,235	12,255	10,040	21,150	0	11,010	787	9,345	8
U. Texas, Austin	35	18,825	18,516	20,467	20,650	1,158	383	399	13,156	5,554
American U.	36	12,757	16,040	20,802	20,632	0	2,433	7,219	3,346	7,634
SUNY, U. Albany	37	18,448	21,269	20,704	20,551	1,122	1,888	12,359	5,182	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	38	15,308	18,404	17,928	20,370	891	898	610	16,677	1,294
Rice U.	39	12,014	17,208	20,720	19,959	365	586	6,914	11,692	402
U. California, San Diego	40	16,269	19,932	20,178	19,942	0	2,777	12,843	2,329	1,993
Florida State U.	41	19,408	19,717	18,519	19,446	408	4,418	3,813	3,211	7,596
Northwestern U.	42	16,447	15,007	16,211	18,762	1,106	3,721	758	443	12,734
Ohio State U.	43	12,775	14,157	17,776	18,486	485	4,332	877	6,008	6,784
Florida International U.	44	9,792	10,866	16,551	17,828	207	2,534	2,120	1,189	11,778
U. Arizona	45	20,086	19,835	19,450	17,689	3,443	2,257	503	3,904	7,582
U. Montana, Missoula	46	18,130	18,144	16,775	17,493	997	2,391	368	476	13,261
U. Virginia, Charlottesville	47	11,646	11,388	13,457	16,948	708	1,833	4,619	3,627	6,161
SUNY, Binghamton U.	48	11,990	12,684	13,250	16,907	2,358	5,685	2,054	2,552	4,258
U. South Carolina, Columbia	49	19,922	15,241	13,440	16,626	4,826	0	699	6,714	4,387
U. Colorado Boulder	50	16,568	17,707	18,635	16,443	69	557	627	10,314	4,876

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
Brandeis U.	51	17,697	i	15,709		18,222		16,191		66		344		37		12,460		3,284	
Indiana U.-Purdue U., Indianapolis	52	11,668		13,373		13,123		16,055		39		98		7,813		7,405		700	
Yale U.	53	9,051		11,683		14,401		15,994		1,143		5,613		918		2,712		5,608	
U. Washington, Seattle	54	21,852		21,497		16,437		15,458		94		0		5,714		7,072		2,578	
North Dakota State U.	55	11,636		8,857		9,396		15,215		0		4,998		0		951		9,266	
U. Utah	56	4,083		10,627	i	3,776	i	14,837	i	1,286	i	164	i	1,017	i	7,151	i	5,219	i
Colorado State U., Fort Collins	57	7,905		9,714		12,649		14,787		2,448		3,801		683		2,758		5,097	
Columbia U. in the City of New York	58	12,763		18,674		19,050		14,784		0		0		1,127		9,078		4,579	
U. Nebraska, Lincoln	59	9,696		11,610		13,140		14,322		526		1,744		1,248		9,948		856	
Syracuse U.	60	12,497		12,728		12,954		14,165		1,134		2,148		4,899		2,082		3,902	
Teachers C., Columbia U.	61	16,867		15,566		15,875		13,869		0		12,071		0		0		1,798	
U. Florida	62	13,491		14,692		13,849		13,552		1,454		5,001		1,815		80		5,202	
Virginia Polytechnic Institute and State U.	63	14,604		13,299		11,273		13,082		0		5,163		96		3,247		4,576	
U. Delaware	64	16,667		13,731		12,868		12,936		0		3,488		141		2,525		6,782	
Tufts U.	65	8,696		15,495		14,063		12,852		443		1,585		991		2,157		7,676	
U. California, Irvine	66	10,572		12,368		13,071		12,741		867		1,429		2,974		1,089		6,382	
U. Massachusetts, Boston	67	10,262		9,475		12,035		12,734		822		223		3,128		5,557		3,004	
U. Texas M. D. Anderson Cancer Center	68	8,644		8,306		10,294		12,591		0		0		0		12,591		0	
Carnegie Mellon U.	69	13,888		16,639		14,307		12,461		0		762		210		483		11,006	
Washington State U.	70	11,723		14,112		13,079		12,338		322		4,436		774		412		6,394	
U. Tennessee, Knoxville[b]	71	6,924		12,480		12,661		12,171		2,466		6,265		1,502		864		1,074	
Texas Tech U.	72	9,374		7,523		10,463		11,877		0		7,141		938		994		2,804	
Boston C.	73	10,950		11,278		11,141		11,862		0		821		172		4,538		6,331	
Northeastern U.	74	8,491		11,039		11,540		11,615		0		716		1,816		4,085		4,998	
U. Maryland, Baltimore County	75	9,104		10,521		13,139		11,597		0		124		135		686		10,652	
U. New Hampshire	76	7,524		5,583		8,621		11,344		56		1,450		2,874		2,365		4,599	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Cincinnati	77	10,384	11,252	12,083	11,291	272	0	336	2,421	8,262
Kansas State U.	78	1,281	4,262	4,159	10,750	0	6,253	985	1,385	2,127
U. New Mexico	79	10,215	9,784	10,707	10,624	1,494	565	100	2,877	5,588
William & Mary	80	8,290	9,532	10,227	10,623	995	1	3,780	112	5,735
North Carolina State U.	81	7,007	8,361	8,403	9,826	0	7,085	415	2,326	0
U. Central Florida	82	14,547	16,909	13,274	9,513	807	3,846	1,331	1,175	2,354
U. Texas, San Antonio	83	5,521	5,686	6,674	9,447	916	925	760	3,242	3,604
U. Oregon	84	3,533	6,650	3,790	8,911	646	591	3,199	435	4,040
U. Notre Dame	85	7,673	9,494	9,450	8,860	407	3,768	3,672	441	572
New Jersey Institute of Technology	86	0	0	0	8,314	0	8,231	83	0	0
Boston U.	87	5,022	7,983	7,962	7,931	539	1,824	306	529	4,733
U. Illinois, Chicago	88	8,762	6,787	6,741	7,905	152	582	202	307	6,662
U. Memphis	89	2,915	3,548	4,052	7,750	548	1,906	280	866	4,150
California State U., Sacramento	90	1,681	5,981	7,331	7,680	196	218	203	6,599	464
U. California, Santa Barbara	91	6,228	5,912	7,450	7,631	18	646	109	374	6,484
U. North Texas, Denton	92	1,897	1,372	5,413	7,541	361	719	1,619	1,078	3,764
Vanderbilt U. and Vanderbilt U. Medical Center	93	4,151	4,907	6,861	7,187	380	934	3,280	9	2,584
U. Arkansas, Fayetteville	94	4,022	4,857	4,375	7,186	328	3,198	134	802	2,724
U. Nevada, Reno	95	956	5,521	7,113	7,053	1,671	2,478	1,252	729	923
Rutgers, State U. New Jersey, New Brunswick	96	13,321	7,649	7,779	7,005	386	2,066	319	2,168	2,066
Iowa State U.	97	7,385	4,356	3,741	6,923	0	3,699	899	2,098	227
Auburn U., Auburn	98	4,619	5,940	5,387	6,902	1	1,463	1,543	545	3,350
Tulane U.	99	7,235	4,926	5,241	6,876	606	5,222	509	338	201
U. Iowa	100	6,625	6,913	7,575	6,875	78	505	473	754	5,065
Temple U.	101	2,757	3,070	3,214	6,746	392	978	1,032	702	3,642
U. Wisconsin-Milwaukee	102	2,821	4,331	4,973	6,710	2,816	689	251	2,840	114
Oregon State U.	103	5,701	5,795	5,550	6,696	3	1,741	22	829	4,101
Clemson U.	104	5,584	5,711	5,991	6,680	0	55	173	451	6,001
U. Connecticut	105	6,803	8,481	8,455	6,645	626	1,683	726	2,850	760
U. Kansas	106	5,894	7,991	7,043	6,450	176	367	250	277	5,380

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
SUNY, U. Buffalo	107	8,662		10,024		9,937		6,356		3,984		30		22		2,320		0	
U. Nevada, Las Vegas	108	5,966		4,149		6,344		6,306		951		2,127		798		791		1,639	
Cleveland State U.	109	7,235		6,493		6,170		6,265		0		129		178		0		5,958	
Oklahoma State U., Stillwater	110	7,361		2,453		5,425		6,251		322		1,573		902		1,431		2,023	
Johns Hopkins U.[c]	111	10,368	i	7,417	i	8,923	i	6,221	i	8	i	51	i	202	i	5,116	i	844	i
Naval Postgraduate School	112	6,144		4,945		4,608		6,040		0		326		3,032		1,116		1,566	
U. Massachusetts, Lowell	113	4,062		2,809		4,635		5,924		0		237		371		2,510		2,806	
U. Illinois, Urbana-Champaign	114	8,335		9,255		6,846		5,846		582		1,325		712		65		3,162	
U. California, Santa Cruz	115	4,947		6,886		6,908		5,724		0		323		179		1,564		3,658	
Alcorn State U.	116	4,652		4,461		5,428		5,659		0		5,659		0		0		0	
U. California, Riverside	117	4,881		3,279		4,568		5,132		0		110		67		1,507		3,448	
San Diego State U.	118	4,920		4,811		5,054		5,106		548		970		1,031		605		1,952	
U. Idaho	119	2,127		1,848		2,108		5,076		196		2,346		0		802		1,732	
U. Pittsburgh, Pittsburgh	120	5,129		4,743		4,662		4,990		113		353		1,001		147		3,376	
Northern Illinois U.	121	3,485		4,679		4,014		4,982		298		11		4,375		8		290	
Texas State U.	122	2,983		3,308		4,217		4,907		0		0		0		1,017		3,890	
Tuskegee U.	122	30	i	24		4,803		4,907		0		0		7		1,841		3,059	
Louisiana State U., Baton Rouge	124	4,265		4,296		3,704		4,888		0		2,894		83		560		1,351	
U. Hawaii, Manoa	125	2,790		4,241		4,828		4,851		101		268		1		90		4,391	
U. Massachusetts, Amherst	126	5,234		5,185		6,118		4,819		610		1,129		495		1,505		1,080	
Kent State U.	127	5,142		4,529		5,031		4,793		443		751		704		1,163		1,732	
U. Alabama, Tuscaloosa	128	4,458		5,069		5,328		4,595		114		643		73		1,464		2,301	
Claremont McKenna C.	129	4,910		4,552		4,997		4,545		0		968		1,497		0		2,080	
U. Vermont	130	1,037		1,104		1,356		4,492		604		1,736		1,098		526		528	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Case Western Reserve U.	131	2,279	3,195	3,170	4,386	291	0	0	111	3,984
U. West Florida	132	8,718	12,234	7,861	4,236	0	1,495	0	0	2,741
U. Texas, El Paso	133	5,083	3,903	3,951	4,161	82	1,092	1,184	1,658	145
U. North Carolina, Charlotte	134	1,275	2,632	3,658	3,973	93	219	2,020	572	1,069
U. Missouri, Columbia	135	3,611	3,037	2,840	3,957	48	1,973	0	174	1,762
Portland State U.	136	6,210	5,289	5,018	3,882	590	123	172	823	2,174
New School	137	4,545	2,966	3,802	3,790	180	926	563	608	1,513
San Francisco State U.	138	2,041	3,085	3,629	3,760 i	46 i	68 i	17 i	87 i	3,542 i
U. Kentucky	139	1,348	1,659	765	3,696	56	2,527	92	559	462
U. Texas Rio Grande Valley	140	453	437	3,575	3,660	137	823	643	235	1,822
U. Southern Mississippi	141	2,976	2,734	5,373	3,645	0	0	8	0	3,637
West Virginia U.	142	3,584	2,752	2,356	3,590	0	801	257	508	2,024
Clark U.	143	3,767	4,141	3,694	3,575	0	2,067	20	115	1,373
U. Baltimore	144	4,939	3,707	3,392	3,367	0	2,098	181	0	1,088
Emory U.	145	2,349	3,251	2,005	3,352	0	1,544	765	988	55
U. New Orleans	146	2,306	2,342	2,646	3,341	438	437	109	0	2,357
Bowling Green State U.	147	3,232	3,025	3,683	3,333	0	196	574	920	1,643
U. Alaska, Anchorage	148	2,281	1,916	2,233	3,306	19	175	0	0	3,112
Wayne State U.	149	2,955	2,431	3,342	3,289	90	238	166	192	2,603
Boise State U.	150	3,741	4,145	4,232	3,200	102	190	786	5	2,117
Claremont Graduate U.	151	1,882 i	1,619 i	1,356	3,122	0	9	85	0	3,028
CUNY, Hunter C.	152	1,482	1,627	1,468	3,051	830	49	416	1,322	434
U. California, Merced	153	3,454	2,770	3,065	2,988	217	358	248	443	1,722
U. Southern Maine	154	3,282	3,820	3,431	2,963	0	177	10	35	2,741
SUNY, Stony Brook U.	155	2,258	2,204	2,775	2,881	878	330	580	341	752
Drexel U.	156	3,079	3,195	3,028	2,854	0	133	108	295	2,318
U. Illinois, Springfield	157	2,188	2,076	1,699	2,838	0	0	0	50	2,788
Chapman U.	158	1,315	2,314	3,068	2,714	0	190	2,305	30	189
Utah State U.	159	909	1,695	1,591	2,601	0	867	53	1,679	2

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Rochester Institute of Technology	160	2,973	2,441	2,623	2,584	0	0	222	0	2,362
Old Dominion U.	161	856	1,501	2,279	2,482	0	348	650	87	1,397
Sam Houston State U.	162	2,013	3,065	2,465	2,444	0	10	4	151	2,279
National Defense U.	163	5,673	2,219	2,155	2,383	0	0	2,383	0	0
U. Rhode Island	164	2,605	3,204	2,432	2,377	0	937	92	24	1,324
Illinois State U.	165	635	900	796	2,351	1	100	16	2,197	37
U. Mississippi	166	5,839	5,010	5,469	2,317	0	372	372	1,353	220
U. Maine	167	1,834	1,666	2,293	2,274	260	125	194	159	1,536
U. Missouri, Saint Louis	168	2,280	2,331	2,831	2,265	0	166	11	0	2,088
CUNY, Graduate Center	169	4,418	2,538	3,090	2,238	171	24	984	365	694
U. Texas, Dallas	170	3,808	2,940	2,480	2,166	0	179	1,078	607	302
Montclair State U.	171	38	65	1,123	2,138	144	205	284	173	1,332
U. New Haven	172	0	3,921	3,030	2,107	0	0	0	85	2,022
Kennesaw State U.	173	170	1,343	5,746	2,096	0	486	87	77	1,446
U. Denver	174	2,764	3,741	3,739	2,092	141	0	1,423	7	521
South Dakota State U.	175	1,359	1,536	1,600	1,967	0	1,053	0	326	588
Baylor U.	176	2,048	1,859	1,920	1,945	448	171	249	975	102
East Carolina U.	177	2,201	1,522	1,976	1,886	207	601	209	103	766
U. Nebraska, Omaha	178	1,369	1,938	2,475	1,856	0	0	84	55	1,717
U. Massachusetts, central office	179	1,477	1,682	1,741	1,818	0	556	64	1,127	71
U. Miami	180	803	2,160	2,294	1,812	0	0	0	308	1,504
U. Alaska, Fairbanks	181	1,502	1,071	1,162	1,810	119	0	0	20	1,671
Worcester Polytechnic Institute	182	407	453	1,457	1,760	0	0	0	0	1,760
U. Alabama, Huntsville	183	2,865	3,227	2,325	1,717	0	1,501	59	157	0
Virginia Commonwealth U.	184	2,529	2,475	1,251	1,701	0	7	1,543	0	151
Rutgers, State U. New Jersey, Newark	185	2,754	3,248	1,052	1,678	0	0	88	68	1,522

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Ball State U.	186	849	1,222	1,381	1,662	404	869	168	163	58
U. North Dakota	187	1,511	1,426	1,739	1,616	109	614	393	155	345
Eastern Washington U.	188	840	1,552	1,126	1,613	0	0	0	0	1,613
U. Louisville	189	1,061	1,269	2,342	1,593	114	48	93	266	1,072
Middle Tennessee State U.	190	219	597	1,325	1,583	352	364	790	60	17
Bryn Mawr C.	191	1,618	1,535	1,480	1,573	164	285	489	413	222
California State U., Los Angeles	192	1,860	1,619	1,659 i	1,570	0	0	0	0	1,570
William Paterson U.	193	432	1,326	1,295	1,568	109	409	185	732	133
U. Houston	194	5,162	7,860	2,714	1,536	0	173	473	195	695
U. Northern Iowa	195	1,553	1,458	1,924	1,510	0	15	0	23	1,472
Colorado School of Mines	196	1,113	1,411	571	1,403	220	1,173	0	0	10
Wellesley C.	197	341	263	1,240	1,402	46	311	1	235	809
Loyola Marymount U.	198	1,230	796	868	1,285	0	80	22	249	934
Michigan Technological U.	199	1,803	1,863	1,386	1,260	0	0	0	0	1,260
Washington U., Saint Louis	200	1,056	1,556	1,259	1,191	653	0	231	7	300
Pennsylvania State U., Harrisburg	201	1,256	1,407	1,477	1,178	0	128	512	538	0
Montana State U., Bozeman	202	597	407	582	1,126	0	0	466	644	16
U. Puerto Rico, Rio Piedras	203	523	1,192	1,333	1,119	0	0	0	0	1,119
Fordham U.	204	1,448	993	964	1,095	0	556	130	287	122
Northwest Indian C.	205	ne	0	1,054	1,044 i	0 i	0 i	0 i	1,044 i	0 i
Eastern Michigan U.	206	442	761	752	1,039	247	91	52	184	465
U. Wisconsin-La Crosse	207	1,040	1,019	945	1,024	0	313	5	24	682
Marquette U.	208	577	933	784	1,008	0	37	449	517	5
Ohio U.	209	1,678 i	1,630 i	1,377	960	0	4	0	73	883
Southern Illinois U., Carbondale	210	1,269	1,118	1,249	954	0	9	436	315	194
Creighton U.	211	1,060 i	1,010 i	1,135 i	933 i	20 i	157 i	229 i	163 i	364 i

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Brigham Young U., Provo	212	938	656	1,052	924	80	325	479	40	0
U. Missouri, Kansas City	213	632	600	878	907	0	727	14	8	158
CUNY, Baruch C.	214	918	637	728	897	2	6	10	615	264
West Chester U. Pennsylvania	215	539	664	958	892	50	628	49	5	160
California State U., San Marcos	216	200	441	990	884	0	0	0	5	879
U. North Texas, Health Science Center	217	0	474	1,025	866	0	0	0	0	866
Long Island U.	218	12	4	2	847	41	169	393	244	0
Indiana U. Pennsylvania	219	334	724	939	842	122	168	2	229	321
Howard U.	220	856	1,028	843	827	0	444	95	288	0
Williams C.	220	1,522	1,368	873	827 i	28 i	402 i	28 i	0 i	369 i
Loyola U., Chicago	222	426	414	700	800	60	0	11	3	726
Grinnell C.	223	544	556	917	755	250	212	143	150	0
U. North Carolina, Greensboro	224	906	1,326	728	747	32	199	49	54	413
Northwestern State U. Louisiana	225	512	570	657	738	0	0	0	0	738
Rutgers, State U. New Jersey, Camden	226	124	519	562	733	0	0	3	483	247
Louisiana Tech U.	227	477	579	706	726	0	0	0	505	221
Naval War C.	228	4,240 i	5,270	679	724	0	0	724	0	0
Winston-Salem State U.	228	0	150	453	724	0	721	0	0	3
Embry-Riddle Aeronautical U.	230	181	225	394	714	0	0	0	0	714
Hampton U.	231	2,543	1,804	1,604	710	0	0	0	0	710
U. North Carolina, Wilmington	232	266	136	390	709	9	103	1	0	596
U. Maryland, Eastern Shore	233	0	502	720	695	0	0	695	0	0
Western Washington U.	234	591	1,077	817	690	0	3	486	115	86
California State U., East Bay	235	ne	ne	ne	677	2	200	319	92	64

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California Polytechnic State U., San Luis Obispo	236	1,671	505	256	675	0	379	53	33	210
Hope C.	237	0	61	0	673	0	119	20	0	534
Andrews U.	238	ne	ne	715	670	145	40	58	135	292
Grand Valley State U.	239	1,551	1,225	964	657	0	207	7	118	325
Villanova U.	240	714	840	752	656	0	460	172	24	0
Tarleton State U.	241	9	12	145	639	0	0	60	539	40
U. North Florida	242	386	556	788	633	0	34	63	402	134
California State U., Long Beach	243	329	646	723	625	36	2	11	47	529
Pomona C.	244	506	723	580	620	61	203	177	41	138
Humboldt State U.	245	327	388	308	616	115	132	14	186	169
U. South Alabama	246	385	532	628	586	0	0	0	31	555
Appalachian State U.	247	166	175	226	585	153	158	90	15	169
Miami U.	248	1,087	992	471	582	43	51	42	15	431
Des Moines U.	249	16	52	155	561	310	0	0	251	0
California State U., Northridge	250	322	448	695	559	0	151	0	0	408
U. Wyoming	251	9,906	10,249	477	535	311	120	0	0	104
Southern U. and A&M C., Baton Rouge	252	1	0	0	528	0	0	0	1	527
Central Connecticut State U.	253	449	ne	504	519	0	15	0	5	499
Connecticut C.	254	222	133	588	517	0	0	0	0	517
Wheaton C., Wheaton	255	492	835	1,132	515	0	15	56	5	439
Southern Connecticut State U.	256	35	252	289	505	90	205	51	159	0
U. South Dakota	257	810	356	373	504	36	0	369	99	0
Catholic U. of America	258	425	358	402	502	0	248	14	240	0
Trinity U.	259	295	402	718	501	0	408	12	81	0
U. Massachusetts, Dartmouth	260	854	574	848	499	0	4	18	105	372
Amherst C.	261	412	625	879	488	50	76	141	14	207
Salisbury U.	262	471	493	581	485	0	455	7	1	22

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
CUNY, Queens C.	263	481	659	696	477	74	24	8	264	107
New Mexico State U.	264	170	504	653	469	107	262	88	6	6
Carleton C.	265	363	0	432	464	322	0	37	29	76
Emerson C.	266	385	679	95	462	10	0	41	50	361
U. Puerto Rico, Cayey	267	0	84	150 i	460	0	13	0	197	250
Wake Forest U.	267	102	103	901	460	79	81	119	181	0
California State U., Fresno	269	156	523	700	456	14	0	0	363	79
Wesleyan U.	270	746	1,890	1,040	454	16	166	213	45	14
Sul Ross State U.	271	920	921	774	451	0	0	0	0	451
Saint Louis U.	272	238	326	272	448	183	0	19	154	92
Franklin and Marshall C.	273	167	156	297	440	10	25	67	314	24
Reed C.	274	24	58	322	439	10	86	326	2	15
California State U., Chico	275	74	340	453	426	289	17	16	1	103
Northern Arizona U.	276	678	371	724	419	114	141	14	55	95
North Carolina Central U.	277	534	521	662	415	0	0	48	0	367
U. San Francisco	278	112	149	300	397	15	43	8	226	105
U. Richmond	279	528	533	579	394	0	326	51	17	0
U. Toledo	280	411	650	257	378	0	49	66	30	233
Winthrop U.	281	218	86	184	371	84	0	286	0	1
Colorado C.	282	298	569	413	363	36	70	15	242	0
Missouri State U.	283	417	410	367	357	0	0	0	35	322
Rensselaer Polytechnic Institute	284	397	433	451	355	0	0	0	0	355
U. Northern Colorado	285	321	506	314	346	114	0	0	171	61
St. Edward's U.	286	145	150	366	340	0	70	10	10	250
Haverford C.	287	147 i	144 i	178 i	336 i	22 i	87 i	74 i	58 i	95 i
Southern Methodist U.	288	656	1,038	1,595	326	300	0	11	15	0
California State U., San Bernardino	289	925	1,270	534	320	20	22	0	0	278
U. Texas of the Permian Basin	289	2	0	ne	320	0	0	0	0	320
Texas Christian U.	291	104	83	591	319	0	0	19	154	146

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
Rowan U.	292	72		119		66		311		0		0		0		236		75	
Alabama A&M U.	293	684	i	560	i	437	i	298	i	0	i	0	i	45	i	93	i	160	i
Barnard C.	294	260		274		432		293		52		161		2		24		54	
U.S. Air Force Academy	295	1,673		1,381		2,464		292		0		0		203		24		65	
Western Carolina U.	295	20		52		215		292		252		0		0		0		40	
U. San Diego	297	204		287		614		289		3		0		32		157		97	
Southern Illinois U., Edwardsville	298	142		125		315		286		72		35		0		0		179	
U.S. Military Academy	299	1,267		138		78		284		0		17		25		0		242	
U. Colorado Denver and Anschutz Medical Campus	300	901		595		354		282		60		1		0		38		183	
U. Rochester	301	201		180		219		279		21		0		171		0		87	
Azusa Pacific U.	302	360		233		701		274		1		1		41		43		188	
Elon U.	302	284		259		209		274		22		67		51		46		88	
Hamilton C.	302	232		286		216		274		75		57		82		20		40	
Swarthmore C.	302	147		211		339		274		0		184		43		47		0	
Colgate U.	306	491		419		440		268		36		75		92		56		9	
Morehead State U.	307	177		46		5		267		0		0		0		0		267	
California State U., Bakersfield	308	208		351		391		264		133		2		1		99		29	
Southeastern Louisiana U.	308	240		226		176		264		0		264		0		0		0	
Towson U.	308	41		124		198		264		134		41		15		33		41	
Stephen F. Austin State U.	311	248		292		213		250		0		1		0		3		246	
SUNY, Buffalo State	311	296		339		260		250		0		0		0		0		250	
U. Houston-Downtown	313	27		78		143		247		0		0		0		0		247	
U. Alabama, Birmingham	314	824		609		803		246		0		0		0		16		230	
CUNY, Brooklyn C.	315	102		236		238	i	243		4		0		0		239		0	
U. Tulsa	315	60		69		92		243		243		0		0		0		0	
Idaho State U.	317	156		234		279		240		85		0		108		41		6	
U. Puerto Rico, Mayaguez	318	136		67		96		233		0		3		0		230		0	
U. Wisconsin-Superior	319	ne		0		0		230		0		230		0		0		0	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. of the Virgin Islands	320	0	0	1	228	0	221	7	0	0
Gettysburg C.	321	367	480	468	226	177	18	15	16	0
Colby C.	322	157	197	111	222	40	30	25	13	114
St. Olaf C.	323	72	83	139	219	15	1	21	16	166
U. Maryland Center for Environmental Science	324	0	89	219	216	0	193	0	0	23
Hawaii Pacific U.	325	449	398	350	215	0	0	0	215	0
Pepperdine U.	326	152	112	71	213	0	68	26	70	49
Prairie View A&M U.	326	31	48	0	213	0	0	213	0	0
U. South Florida, Sarasota-Manatee	326	114	156	165	213	0	7	0	0	206
CUNY, John Jay C. of Criminal Justice	329	268	1,729	349	210	6	5	90	96	13
Florida Atlantic U.	329	45	107	142	210	0	0	0	0	210
U. Hawaii, Hilo	331	143	160	348	207	6	0	0	0	201
St. Cloud State U.	332	278	202	278	206	20	61	47	10	68
Jackson State U.	333	213	112	325	201	0	0	34	0	167
Seattle U.	334	0	232	162	200	0	0	0	0	200
Texas Woman's U.	334	7	0	50	200	0	0	0	0	200
Western Illinois U.	336	237	231	201	199	0	0	0	199	0
Saint Joseph's U.	337	30	56	172	194	0	5	17	8	164
Pace U.	338	208	68	52	192	0	0	6	9	177
Saint John's U., Collegeville	338	267	205	202 i	192 i	0 i	96 i	94 i	2 i	0 i
Bowdoin C.	340	113	62	243	191	67	0	12	112	0
Occidental C.	341	208	203	8	190	0	15	0	0	175
San Jose State U.	341	664	351	247	190	3	10	14	7	156
Dillard U.	343	1,291	688	348	189	0	0	123	0	66
California State U., Dominguez Hills	344	56	102	58	186	6	0	0	153	27
Macalester C.	345	217	154	194	182	0	0	169	0	13
U. Puget Sound	345	113	ne	ne	182	0	0	6	34	142

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
CUNY, Lehman C.	347	797	964	739	180	9	0	5	166	0
Albion C.	348	119	122	102	176	66	66	23	21	0
Delaware State U.	348	396	394	169	176 i	0 i	0 i	2 i	174 i	0 i
Ithaca C.	348	ne	ne	ne	176	9	0	2	49	116
Gallaudet U.	351	60	37	82	173	6	0	110	0	57
Central Michigan U.	352	236	171	215	169	0	1	3	107	58
Western Michigan U. and Homer Stryker M.D. School of Medicine	352	506	420	844	169	0	5	8	151	5
Mount Holyoke C.	354	166	285	295	168	0	0	0	168	0
Furman U.	355	35	26	13	164	0	0	2	2	160
Trinity C., Hartford	356	166	181	272	163	51	19	80	3	10
Bates C.	357	74	83	308	161	71	24	20	6	40
Davidson C.	357	152	186	247	161	35	0	0	126	0
U. Guam	359	231	174	256	154	0	0	0	154	0
Smith C.	360	127	173	549	151	10	59	34	48	0
Texas A&M U.-Corpus Christi	360	147	106	77	151	0	125	0	2	24
Arkansas State U., Jonesboro	362	292	176	36	148	0	148	0	0	0
Christopher Newport U.	362	24	87	0	148	10	0	71	0	67
U. Louisiana, Monroe	364	272	235	182	144	0	0	0	0	144
U. Oklahoma, Tulsa	365	103	27	126	142	0	0	0	0	142
Stockton U.	366	ne	230	49	140	20	17	35	52	16
Texas A&M U.-Commerce	367	0	0	66	139	0	57	0	38	44
Rhode Island School of Design	368	2 i	118 i	145 i	137 i	0 i	0 i	0 i	0 i	137 i
Pittsburg State U.	369	186	42	100	132	0	132	0	0	0
Spelman C.	370	57	208	43	129	0	129	0	0	0
Augusta U.	371	79	31	178	128	0	0	0	0	128
Vassar C.	371	53	382 i	111	128	23	11	65	26	3
SUNY, Geneseo	373	100	197	157	124	7	0	6	8	103
U. Colorado Colorado Springs	373	58	16	39	124	46	0	0	0	78

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
U. Washington, Tacoma	373	8		12		36		124		0		0		0		0		124	
Minnesota State U., Mankato	376	263		447		349		121		15		0		0		10		96	
U. Houston-Clear Lake	377	99		23		63		120		0		0		0		37		83	
Lafayette C.	378	8		47		54		119		12		14		29		0		64	
Florida Gulf Coast U.	379	136		132		81		118		40		0		38		0		40	
Central Washington U.	380	524		195		119		116		102		0		0		8		6	
Santa Clara U.	380	205		176		135		116		25		35		56		0		0	
U. Michigan, Dearborn	382	110		131		245		114		0		0		0		80		34	
C. Charleston	383	265		181		162		113		0		0		25		24		64	
Georgia Southern U.	383	582		515		308		113		8		22		36		20		27	
Bucknell U.	385	213	i	234		119		112	i	0	i	34	i	6	i	15	i	57	i
Fayetteville State U.	386	151		151		151		111		0		51		0		0		60	
Union C., Schenectady	386	52		55		72		111		11		16		22		13		49	
California State U., Fullerton	388	193		67		212		110		14		17		12		16		51	
SUNY, C. of Environmental Science and Forestry	388	499		575		330		110		0		5		5		0		100	
Northern Michigan U.	390	84		0		0		109		0		57		0		7		45	
Saginaw Valley State U.	391	33		18		124		106		0		4		0		14		88	
Western Kentucky U.	391	416		162		207		106		19		3		79		0		5	
U. Nebraska, Kearney	393	161		410		76		104		24		9		41		23		7	
U. Texas, Arlington	393	125		132		160		104		0		0		4		9		91	
Illinois Institute of Technology	395	1,446		563		254		100		0		0		0		0		100	
Calvin U.	396	166		86		105		98	i	0	i	0	i	30	i	50	i	18	i
Morgan State U.	396	198		273		3		98		0		0		0		0		98	
U. Louisiana, Lafayette	398	1,128		1,792		406		97		0		97		0		0		0	
Lehigh U.	399	97		162		86		95		0		8		17		64		6	
Northern Kentucky U.	399	36		46		43		95		0		0		94		1		0	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
U. Akron	399	653		261		154		95		28		8		49		5		5	
Lincoln U., Jefferson City	402	89		130		112		92		0		92		0		0		0	
Pacific U.	403	38		99		294		90		0		84		3		0		3	
East Tennessee State U.	404	169		1,172	i	406	i	88	i	0	i	1	i	0	i	82	i	5	i
Mercyhurst U.	405	0	i	ne		81	i	84	i	2	i	0	i	31	i	0	i	51	i
U. Minnesota, Duluth	406	90		110		123		82		3		14		47		0		18	
Dickinson C.	407	115		ne		15		81		0		13		15		22		31	
Mercer U.	407	18		73		57		81		0		0		0		47		34	
SUNY, C. Brockport	407	19		31		70		81		2		0		2		35		42	
Oberlin C.	410	40		78		97		77		1		21		55		0		0	
SUNY, Oswego	410	27		15		48		77		2		0		33		5		37	
Claflin U.	412	10		0		0		75		0		75		0		0		0	
Clarkson U.	413	111		97		83		74		6		0		36		0		32	
CUNY, Medgar Evers C.	413	101		25		77		74		0		0		0		74		0	
U. of Mary Washington	415	ne		96		90		73		4		0		27		42		0	
U. Wisconsin-Green Bay	415	56	i	57	i	79	i	73	i	4	i	12	i	10	i	17	i	30	i
U. Wisconsin-Eau Claire	417	300		33		77		72		26		7		39		0		0	
New York Institute of Technology	418	0		0		0		70		0		0		0		0		70	
U. Tennessee, Chattanooga	419	69		93		88		68		0		0		2		66		0	
North Carolina Agricultural and Technical State U.	420	0		0		0		67		0		0		0		61		6	
C. of Saint Benedict	421	88		69		68	i	65	i	0	i	24	i	36	i	3	i	2	i
Middlebury C.	421	54		74		137		65		0		60		5		0		0	
Hofstra U.	423	21		116		103		64		54		2		0		0		8	
Manhattan C.	423	ne		ne		0		64		0		64		0		0		0	
U. Wisconsin-Platteville	425	76	i	ne		62	i	63	i	0	i	0	i	12	i	11	i	40	i
Missouri U. of Science and Technology	426	105		195		134		61		0		61		0		0		0	
CUNY, York C.	427	ne		ne		12		59		0		0		0		0		59	
Texas A&M International U.	427	40		44		17		59		0		0		0		49		10	
Clark Atlanta U.	429	143		117		136		58		0		0		0		58		0	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
Tennessee Technological U.	430	4		16		24		55		0		40		15		0		0	
C. New Jersey	431	40		18		ne		54		0		16		38		0		0	
U. Wisconsin-Oshkosh	432	49	i	52	i	52	i	53	i	4	i	13	i	10	i	26	i	0	i
Bradley U.	433	2		9		23		52		0		0		0		52		0	
Northeastern Illinois U.	434	0		0		82		48		0		0		0		0		48	
California State U., Channel Islands	435	24		38		68		45		0		12		0		17		16	
Oakland U.	435	62		66		312		45		20		0		25		0		0	
California State U., Stanislaus	437	77		55		39		44		11		1		0		8		24	
Kean U.	437	ne		ne		ne		44		0		0		44		0		0	
U. Central Arkansas	439	68		16		5		43		0		0		0		3		40	
Fort Lewis C.	440	ne		ne		37		42		42		0		0		0		0	
Skidmore C.	441	80		51		163		41		19		4		6		12		0	
Biola U.	442	31	i	36	i	39	i	40	i	1	i	0	i	12	i	9	i	18	i
Northeast Ohio Medical U.	442	50		112		88		40		36		0		0		4		0	
Sonoma State U.	442	ne		ne		ne		40		2		0		0		14		24	
California State Polytechnic U., Pomona	445	2		0		0		39		39		0		0		0		0	
La Salle U.	446	ne		ne		ne		38		0		0		38		0		0	
U. Dayton	446	96		115		109		38		0		0		14		21		3	
James Madison U.	448	151		394		61		37		23		0		6		0		8	
Wichita State U.	449	26		8		44		36		18		0		0		1		17	
Rhode Island C.	450	34		23		19		35		6		0		0		29		0	
U. of St. Thomas (MN)	451	0		7		4		34		0		34		0		0		0	
Whitman C.	451	ne		ne		39		34		0		0		0		34		0	
Lipscomb U.	453	ne		ne		ne		33	i	0	i	6	i	7	i	6	i	14	i
Youngstown State U.	454	33		50		39		32		0		0		0		0		32	
Florida Polytechnic U.	455	ne		ne		4		31		0		31		0		0		0	
Hobart and William Smith Colleges	455	5		ne		39		31		5		13		5		0		8	
U. Arkansas, Little Rock	457	68		70		116		27		0		0		0		0		27	
DePaul U.	458	239		283		23		22		0		0		11		0		11	

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Niagara U.	458	252	371	393	22	0	0	0	0	22
Purdue U., Fort Wayne	458	61	230	24	22	0	6	2	0	14
Florida A&M U.	461	38	171	5	21	0	0	0	0	21
Fairfield U.	462	587	0	0	20	0	11	6	2	1
Lamar U.	462	18	11	0	20	0	0	0	10	10
Lewis and Clark C.	462	37	29	5	20	9	0	0	0	11
Troy U.	462	ne	ne	ne	20	4	0	6	0	10
U. Texas, Tyler	466	0	0	45	19	0	0	11	4	4
C. Wooster	467	242	85	283	18	2	1	10	5	0
Eastern Kentucky U.	467	17	14	20	18	18	0	0	0	0
Mills C.	467	0	0	109	18	0	0	0	0	18
Providence C.	467	38	48	5	18	0	0	4	4	10
U. Minnesota, Morris	467	92	ne	139	18	0	7	8	3	0
Columbus State U.	472	ne	ne	ne	17	8	0	0	9	0
Kenyon C.	472	ne	41	24	17	4	5	4	4	0
California Lutheran U.	474	ne	ne	77	16	0	1	7	4	4
Citadel Military C. South Carolina	474	ne	ne	ne	16	0	0	0	0	16
Pennsylvania State U., Behrend	476	79	53	53	15	0	0	0	15	0
U. Michigan, Flint	477	29	128	3	14	0	0	0	0	14
Fort Hays State U.	478	ne	ne	20	10	0	0	2	3	5
Dakota State U.	479	0	1	0	9	0	0	0	9	0
Purdue U., Northwest	479	0	3	0	9	0	5	0	0	4
U. New England	479	9	7	19	9	0	1	3	0	5
CUNY, City C.	482	118	101	42	6	0	0	0	6	0
CUNY, New York City C. of Technology	482	ne	9	4	6	0	0	0	0	6
Duquesne U.	482	18	126	21	6	0	0	5	1	0
Tennessee State U.	482	120	0	3	6	0	0	0	0	6
U. South Carolina, Aiken	482	0	0	0	6	0	0	0	6	0
Liberty U.	487	ne	ne	13	5	0	0	5	0	0
Marshall U.	487	0	1	1	5	0	0	0	0	5

TABLE 52

Higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
U. Wisconsin-Stevens Point	487	4	i	4	i	5	i	5		0		0		0		0		5	
CUNY, C. Staten Island	490	82		15	i	14		4		4		0		0		0		0	
SUNY, C. Plattsburgh	490	0		0		0		4		4		0		0		0		0	
Morehouse C.	492	41		80		26		3		0		3		0		0		0	
U. South Florida, Saint Petersburg	492	48		31		1		3		0		0		0		3		0	
Willamette U.	492	104		81		13		3		2		0		0		0		1	
Austin Peay State U.	495	0		0		0		2		0		0		2		0		0	
Eastern Connecticut State U.	495	166		235		198		2		0		0		1		1		0	
Fisk U.	495	0		0		0		2		0		2		0		0		0	
Roger Williams U.	495	43		58		38		2		0		0		0		0		2	
U. North Carolina, Asheville	495	96		20		1		2		0		0		0		0		2	
Indiana State U.	500	46		11		3		1		0		0		0		0		1	
Monmouth U.	500	ne		ne		30		1		1		0		0		0		0	
All other surveyed institutions	-	64,620		75,110		2,920		0		0		0		0		0		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[c] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $4,601 thousand imputed for total R&D expenditures in social sciences in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
All institutions	-	932,660	937,772	938,491	969,278	38,847	121,461	78,462	253,213	477,295
U. Michigan, Ann Arbor	1	106,574	100,114	91,183	89,211	1,011	21,080	12,713	13,598	40,809
U. North Carolina, Chapel Hill	2	86,345	91,658	84,279	56,291	98	161	1,905	50,140	3,987
U. Maryland[a]	3	na	na	38,235	36,918	424	545	1,460	2,336	32,153
U. Southern California	4	18,027	20,665	25,317	28,212	0	310	1	47	27,854
Harvard U.	5	23,808	24,768	25,188	27,768	47	2,220	308	513	24,680
U. Wisconsin-Madison	6	19,454	21,506	19,987	24,863	24	1,720	1,565	3,192	18,362
Michigan State U.	7	7,242	7,979	9,867	23,664	169	11,767	77	984	10,667
Georgia Institute of Technology	8	2,715	3,059	2,412	21,373	0	58	0	240	21,075
Arizona State U.	9	15,310	18,301	22,385	21,158	3,268	1,358	725	2,315	13,492
Duke U.	10	21,311	20,189	19,689	20,611	1,278	1,867	418	8,567	8,481
Brown U.	11	4,463	7,936	13,087	17,975	0	151	0	124	17,700
Mississippi State U.	12	14,147	17,953	18,611	17,297	80	83	0	7,253	9,881
U. Pennsylvania	13	15,142	15,056	14,723	16,651	281	630	457	13,419	1,864
U. Minnesota, Twin Cities	14	19,720	17,575	17,160	15,486	100	1,810	1,438	11,571	567
U. South Florida, Tampa	15	20,699	11,837	14,684	14,278	478	7	0	980	12,813
U. Oklahoma, Norman and Health Science Center	16	8,134	8,099	9,485	13,505	2,119	26	1,059	62	10,239
U. California, Davis	17	11,924	9,557	10,773	12,384	0	3,687	1,969	896	5,832
Pennsylvania State U., University Park and Hershey Medical Center	18	18,471	12,966	11,862	12,255	1,678	515	211	9,851	0
U. Colorado Boulder	19	11,287	11,913	13,373	11,527	30	517	0	7,736	3,244
Ohio State U.	20	7,533	7,671	8,342	10,746	291	2,273	324	3,948	3,910
U. Chicago	21	8,054	8,647	9,073	10,380	78	1,988	911	2,386	5,017
U. Texas, Austin	22	9,029	9,066	9,604	10,339	775	194	232	6,719	2,419
Indiana U., Bloomington	23	8,627	9,127	10,425	9,632	85	808	3,453	1,220	4,066
U. California, Los Angeles	24	7,507	11,416	9,826	9,105	0	13	2	1,329	7,761
George Washington U.	25	9,356	9,194	8,306	8,955	1,280	513	13	1,280	5,869

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Texas A&M U., College Station and Health Science Center	26	7,168	9,652	9,649	8,838	2,236	864	517	651	4,570
Colorado State U., Fort Collins	27	3,601	4,918	7,399	8,715	2,247	1,732	205	2,254	2,277
Northwestern U.	28	7,225	5,326	6,433	8,526	155	1,260	201	0	6,910
U. Utah	29	3,775	4,479	1,897	8,098	819	11	568	3,201	3,499
Cornell U.	30	13,661	11,736	9,839	7,441	51	1,573	2	3,273	2,542
U. South Carolina, Columbia	31	1,535	2,354	6,019	7,078	1,149	0	47	4,848	1,034
U. Nebraska, Lincoln	32	3,821	5,467	6,886	6,959	0	486	66	6,113	294
American U.	33	3,492	4,905	7,055	6,887	0	102	506	1,982	4,297
Brandeis U.	34	9,821	7,395	9,093	6,882	1	0	0	4,660	2,221
Georgetown U.	35	6,612	6,057	6,863	6,531	0	0	6,531	0	0
U. Delaware	36	6,378	7,286	6,373	6,459	0	1,384	37	1,344	3,694
Massachusetts Institute of Technology	37	4,934	5,763	5,668	6,424	0	1,887	303	0	4,234
U. Washington, Seattle	38	11,349	10,318	6,874	6,333	24	0	1,352	3,989	968
U. Arizona	39	6,222	4,993	6,362	6,264	1,626	254	323	708	3,353
U. New Hampshire	40	4,160	2,799	3,890	6,208	0	1,032	38	1,347	3,791
U. Georgia	41	5,890	6,882	5,083	6,118	318	4,198	44	0	1,558
George Mason U.	42	3,839	3,375	3,999	6,074	0	36	311	120	5,607
Purdue U., West Lafayette	43	3,833	4,049	1,732	5,955	0	2,837	78	3,040	0
Georgia State U.	44	3,590	3,176	3,784	5,873	103	770	231	2,179	2,590
Princeton U.	45	4,967	2,818	5,606	5,802	171	717	1,303	3,407	204
U. Maryland, Baltimore County	46	6,175	7,698	7,192	5,801	0	46	92	633	5,030
U. California, Berkeley	47	6,402	5,761	6,390	5,489	71	2,746	377	299	1,996
New York U.	48	5,106	5,584	5,936	5,450	0	499	399	2,099	2,453
Stanford U.	49	7,010	5,498	5,655	5,291	225	419	2,352	253	2,042
William & Mary	50	5,218	5,574	4,521	5,018	69	0	0	0	4,949
SUNY, U. Albany	51	5,174	4,784	5,428	5,008	86	24	2,856	2,042	0
U. Florida	52	3,746	4,583	4,981	4,981	639	963	984	0	2,395
Johns Hopkins U.[b]	53	9,345	6,083	7,453	4,910	7	0	0	4,611	292
Northeastern U.	54	4,658	4,097	3,542	4,688	0	646	766	905	2,371
Carnegie Mellon U.	55	5,664	6,788	5,919	4,678	0	270	121	196	4,091
Naval Postgraduate School	56	4,554	3,480	3,663	4,623	0	0	2,359	1,116	1,148

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. New Mexico	57	4,137	4,220	4,231	4,420	1,152	261	42	689	2,276
U. Kansas	58	3,103	4,497	4,167	4,390	136	296	128	108	3,722
Virginia Polytechnic Institute and State U.	59	5,787	5,024	3,667	4,272	0	1,495	37	1,488	1,252
North Dakota State U.	60	5,352	4,043	4,226	4,244	0	178	0	174	3,892
Kansas State U.	61	858	725	720	4,175	0	3,103	185	541	346
Washington State U.	62	3,949	4,860	3,496	4,140	129	1,279	0	68	2,664
Texas State U.	63	1,626	2,110	3,217	3,931	0	0	0	1,003	2,928
Teachers C., Columbia U.	64	6,682	5,262	4,267	3,856	0	3,625	0	0	231
Clemson U.	65	3,253	3,092	3,458	3,840	0	0	28	330	3,482
U. Connecticut	66	3,222	4,117	3,749	3,621	221	886	219	1,856	439
North Carolina State U.	67	2,387	2,923	3,151	3,537	0	1,937	201	1,399	0
U. Massachusetts, Boston	68	2,561	2,794	3,176	3,481	349	0	272	2,625	235
Columbia U. in the City of New York	69	4,121	4,042	2,951	3,357	0	0	0	2,321	1,036
Boston C.	70	2,540	3,046	2,549	3,307	0	309	27	2,340	631
Indiana U.-Purdue U., Indianapolis	71	2,004	2,925	3,599	3,292	3	13	2,615	185	476
U. Virginia, Charlottesville	72	2,076	1,666	2,098	3,246	118	582	89	263	2,194
Oregon State U.	73	3,203	2,852	2,723	3,220	3	509	0	273	2,435
U. Idaho	74	1,092	1,104	1,625	3,073	0	1,039	0	553	1,481
Case Western Reserve U.	75	1,491	1,866	1,821	3,051	228	0	0	111	2,712
U. Massachusetts, Lowell	76	1,312	858	2,212	3,021	0	0	0	1,639	1,382
Syracuse U.	77	2,422	2,509	2,989	3,007	80	0	1,719	403	805
U. Texas M. D. Anderson Cancer Center	78	1,982	1,787	2,352	2,968	0	0	0	2,968	0
U. California, San Diego	79	5,875	4,671	3,367	2,924	0	480	2,129	315	0
Florida International U.	80	786	1,439	4,506	2,885	69	51	676	40	2,049
Alcorn State U.	81	1,954	1,961	2,377	2,807	0	2,807	0	0	0
U. Southern Mississippi	82	1,588	1,833	4,522	2,799	0	0	0	0	2,799
Auburn U., Auburn	83	2,609	2,666	2,837	2,573	0	128	29	0	2,416

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Iowa	84	1,954	2,465	2,976	2,393	0	127	94	416	1,756
National Defense U.	85	5,673	2,219	2,155	2,383	0	0	2,383	0	0
U. Cincinnati	86	1,883	2,500	2,068	2,376	150	0	80	623	1,523
U. Pittsburgh, Pittsburgh	87	2,948	2,976	2,594	2,348	48	110	480	51	1,659
U. Wisconsin-Milwaukee	88	678	1,465	1,418	2,273	252	0	0	1,948	73
U. North Carolina, Charlotte	89	1,203	1,706	1,984	2,252	41	83	1,331	520	277
U. Nevada, Reno	90	732	1,634	2,342	2,237	873	882	18	129	335
U. Illinois, Urbana-Champaign	91	2,499	2,672	2,950	2,192	367	0	200	0	1,625
Vanderbilt U. and Vanderbilt U. Medical Center	92	1,884	2,022	2,126	2,189	89	10	1,687	1	402
Tulane U.	93	666	771	1,331	2,175	29	2,081	0	65	0
Tuskegee U.	94	24	24	2,065	2,109	0	0	0	1,841	268
U. Southern Maine	95	2,116	2,085	2,236	2,034	0	0	0	0	2,034
U. Massachusetts, Amherst	96	1,474	1,128	1,563	2,031	173	375	227	969	287
U. Denver	97	1,189	2,235	1,945	1,944	0	0	1,423	0	521
U. Oregon	98	2,292	1,774	1,807	1,893	43	293	548	48	961
Boise State U.	99	2,301	2,539	3,032	1,884	0	30	363	0	1,491
Yale U.	100	2,703	2,708	1,398	1,833	375	766	474	180	38
U. California, Irvine	101	2,409	2,386	1,510	1,829	160	49	509	252	859
U. Montana, Missoula	102	4,108	3,445	2,055	1,795	305	1,058	47	339	46
Rice U.	103	1,084	842	701	1,719	186	194	327	983	29
U. Tennessee, Knoxville[c]	104	2,522	3,207	2,236	1,645	815	522	185	5	118
Temple U.	105	1,716	1,637	1,476	1,614	0	116	27	97	1,374
U. Hawaii, Manoa	106	999	1,186	1,684	1,606	100	1	0	0	1,505
U. Texas, San Antonio	107	1,722	1,768	1,572	1,596	250	0	0	504	842
Worcester Polytechnic Institute	108	247	363	1,347	1,580	0	0	0	0	1,580
U. Alaska, Anchorage	109	941	788	896	1,564	19	74	0	0	1,471
U. Alabama, Tuscaloosa	110	1,823	1,926	2,035	1,549	104	103	0	312	1,030
U. Illinois, Chicago	110	1,626	1,543	1,397	1,549	0	264	0	0	1,285

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
U. Alaska, Fairbanks	112	923	952	941	1,538	119	0	0	20	1,399
U. Rhode Island	113	903	1,195	1,154	1,518	0	886	0	13	619
Portland State U.	114	2,401	1,645	1,518	1,476	476	17	168	109	706
Florida State U.	115	1,700	1,463	1,564	1,463	2	5	132	684	640
U. Alabama, Huntsville	116	2,309	2,682	1,851	1,449	0	1,439	0	10	0
U. Central Florida	117	5,183	5,608	5,111	1,439	255	793	0	185	206
SUNY, U. Buffalo	118	2,065	2,326	2,000	1,433	669	0	0	764	0
U. Notre Dame	119	1,460	2,310	1,568	1,391	48	408	586	200	149
U. Arkansas, Fayetteville	120	888	1,450	704	1,364	179	579	12	566	28
CUNY, Graduate Center	121	584	1,601	2,033	1,334	161	24	424	46	679
San Francisco State U.	122	659	771	1,256	1,309 i	0 i	51 i	0 i	0 i	1,258 i
Rutgers, State U. New Jersey, New Brunswick	123	4,381	903	727	1,308	168	857	47	71	165
Louisiana State U., Baton Rouge	124	1,496	1,303	1,157	1,272	0	476	12	100	684
West Virginia U.	124	984	552	663	1,272	0	94	169	257	752
California State U., Los Angeles	126	1,400	1,530	1,250	1,245	0	0	0	0	1,245
Utah State U.	127	488	979	955	1,241	0	203	0	1,038	0
U. California, Santa Barbara	128	1,376	696	816	1,238	0	23	58	224	933
Tufts U.	129	858	2,365	2,609	1,200	13	323	174	156	534
Iowa State U.	130	1,923	844	708	1,186	0	322	311	326	227
U. Kentucky	131	754	719	418	1,146	2	534	41	459	110
Drexel U.	132	1,545	1,714	1,905	1,057	0	0	85	182	790
U. Texas, El Paso	133	2,360	2,405	2,076	1,054	56	245	35	707	11
Boston U.	134	979	950	1,333	1,052	122	672	0	99	159
SUNY, Binghamton U.	135	1,682	1,513	1,285	1,045	157	2	129	0	757
Northwest Indian C.	136	ne	0	1,054	1,044 i	0 i	0 i	0 i	1,044 i	0 i
Old Dominion U.	137	566	827	783	1,001	0	0	41	0	960
San Diego State U.	138	1,019	743	912	997	110	0	0	17	870
U. Memphis	139	494	412	423	973	5	0	12	286	670
U. Baltimore	140	2,904	1,606	1,265	969	0	650	0	0	319
U. Illinois, Springfield	141	1,169	1,108	954	959	0	0	0	10	949
Kent State U.	142	1,005	1,039	896	949	186	0	0	291	472
U. California, Riverside	143	1,239	446	836	917	0	44	0	443	430
Emory U.	144	655	852	418	916	0	319	207	390	0

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
South Dakota State U.	145	407	465	585	879	0	453	0	300	126
Bowling Green State U.	146	1,027	1,010	986	868	0	154	0	613	101
U. Northern Iowa	147	953	786	1,205	867	0	15	0	18	834
Sam Houston State U.	148	1,192	1,334	958	863	0	0	0	111	752
Colorado School of Mines	149	1,024	1,193	353	850	220	620	0	0	10
Dartmouth C. and Dartmouth Hitchcock Medical Center	150	541	570	622	835	343	70	50	81	291
East Carolina U.	151	641	440	450	832	0	332	52	2	446
SUNY, Stony Brook U.	152	532	906	868	804	364	149	37	81	173
U. New Orleans	153	592	616	708	795	251	0	0	0	544
U. Louisville	154	371	829	1,128	783	49	0	72	128	534
Wellesley C.	155	10	55	588	761	46	181	0	0	534
California State U., San Marcos	156	200	441	898	757	0	0	0	5	752
Naval War C.	157	3,797 i	4,384	679	724	0	0	724	0	0
Hampton U.	158	2,543	1,804	1,604	710	0	0	0	0	710
U. Maryland, Eastern Shore	159	0	502	720	695	0	0	695	0	0
Brigham Young U., Provo	160	596	559	839	688	66	196	405	21	0
U. California, Santa Cruz	161	1,001	1,363	1,069	667	0	76	81	124	386
Clark U.	162	898	1,207	973	655	0	486	0	0	169
Northwestern State U. Louisiana	163	458	486	545	597	0	0	0	0	597
U. Texas, Dallas	164	1,107	885	563	577	0	65	385	5	122
Rutgers, State U. New Jersey, Newark	165	1,579	1,073	394	574	0	0	1	25	548
Eastern Washington U.	166	133	166	129	562	0	0	0	0	562
Rochester Institute of Technology	167	884	1,114	931	557	0	0	185	0	372
CUNY, Hunter C.	168	475	880	231	521	509	0	0	12	0
U. Missouri, Saint Louis	169	871	847	863	492	0	23	0	0	469
William Paterson U.	170	0	0	97	485	0	87	0	398	0

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
California Polytechnic State U., San Luis Obispo	171	1,490	94	146	481	0	376	0	0	105
U. Houston	172	1,963	999	569	478	0	19	64	116	279
Wayne State U.	173	66	199	405	474	0	110	122	72	170
Texas Tech U.	174	221	168	117	470	0	420	1	28	21
California State U., Northridge	175	200	102	352	464	0	56	0	0	408
U. North Texas, Health Science Center	176	0	391	771	456	0	0	0	0	456
U. Nebraska, Omaha	177	445	769	874	453	0	0	77	0	376
U. Miami	178	36	173	235	451	0	0	0	139	312
U. Missouri, Columbia	179	424	483	345	450	24	78	0	144	204
Washington U., Saint Louis	180	586	582	532	443	256	0	55	7	125
Michigan Technological U.	181	568	705	519	440	0	0	0	0	440
Louisiana Tech U.	182	231	293	403	420	0	0	0	420	0
U. California, Merced	183	926	614	462	405	1	0	0	0	404
Miami U.	184	514	719	265	388	0	24	0	0	364
California State U., Chico	185	46	300	371	385	285	0	0	0	100
California State U., Long Beach	186	127	346	394	363	36	0	0	41	286
U. New Haven	186	0	3,077	1,797	363	0	0	0	0	363
U. Richmond	188	474	481	524	359	0	326	33	0	0
Cleveland State U.	189	505	240	164	353	0	0	0	0	353
Claremont Graduate U.	190	1,349 i	987 i	624	351	0	0	14	0	337
Oklahoma State U., Stillwater	191	1,313	393	505	343	0	0	0	162	181
New Mexico State U.	192	74	432	459	341	89	180	67	5	0
Embry-Riddle Aeronautical U.	193	106	113	313	336	0	0	0	0	336
CUNY, Baruch C.	194	396	285	365	333	0	0	0	117	216
U. Puerto Rico, Cayey	195	0	0	0	330	0	0	0	189	141
U. South Alabama	196	276	310	292	326	0	0	0	20	306
U. Texas of the Permian Basin	197	0	0	ne	320	0	0	0	0	320

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Virginia Commonwealth U.	198	448	367	127	305	0	6	299	0	0
Ball State U.	199	257	177	430	303	256	0	0	46	1
U. Wyoming	200	3,108	2,816	405	295	178	117	0	0	0
U.S. Air Force Academy	201	401	147	2,464	292	0	0	203	24	65
St. Edward's U.	202	20	0	336	290	0	40	0	0	250
Montana State U., Bozeman	203	383	295	310	289	0	0	90	185	14
New Jersey Institute of Technology	204	0	0	0	283	0	283	0	0	0
Franklin and Marshall C.	205	71	0	94	279	0	0	0	279	0
California State U., Fresno	206	0	227	327	275	14	0	0	261	0
U. Vermont	207	880	984	1,002	272	184	59	0	0	29
Missouri State U.	208	391	379	290	263	0	0	0	30	233
U. North Carolina, Wilmington	209	6	4	0	260	0	0	0	0	260
Howard U.	210	494	567	257	251	0	17	0	234	0
U. Nevada, Las Vegas	211	586	910	238	249	116	0	15	0	118
U. North Carolina, Greensboro	212	455	1,088	494	244	0	107	0	11	126
Loyola U., Chicago	213	75	72	121	240	52	0	0	0	188
U. Rochester	214	143	172	175	234	21	0	163	0	50
U. of the Virgin Islands	215	0	0	1	228	0	221	7	0	0
Southeastern Louisiana U.	216	145	150	113	224	0	224	0	0	0
Rowan U.	217	72	70	54	222	0	0	0	148	74
Morehead State U.	218	164	45	0	219	0	0	0	0	219
Idaho State U.	219	77	143	197	218	70	0	107	41	0
Southern U. and A&M C., Baton Rouge	220	0	0	0	216	0	0	0	0	216
Northern Arizona U.	221	374	187	540	212	25	109	0	0	78
U. Toledo	221	4	202	109	212	0	0	0	0	212
Central Connecticut State U.	223	0	ne	80	206	0	0	0	0	206
Northern Illinois U.	224	251	235	154	202	193	9	0	0	0

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
U. North Texas, Denton	224	462		447		388		202		0		0		31		65		106	
U. Alabama, Birmingham	226	173		47		720		201		0		0		0		0		201	
Western Carolina U.	227	19		48		207		198		158		0		0		0		40	
Gettysburg C.	228	282		395		413		193		170		14		9		0		0	
Hawaii Pacific U.	228	438		378		341		193		0		0		0		193		0	
Illinois State U.	230	43		201		362		187		0		0		0		187		0	
California State U., San Bernardino	231	6		82		128		183		20		15		0		0		148	
Saint Louis U.	231	16		72		177		183		183		0		0		0		0	
U. Mississippi	233	64		137		86		179		0		27		38		65		49	
Delaware State U.	234	210		168		168		175	i	0	i	0	i	2	i	173	i	0	i
Western Washington U.	235	185		385		241		173		0		0		71		34		68	
California State U., East Bay	236	ne		ne		ne		171		0		0		171		0		0	
Connecticut C.	237	108		59		249		169		0		0		0		0		169	
Ohio U.	237	280		308		140		169		0		0		0		5		164	
Appalachian State U.	239	12		129		121		167		59		94		0		0		14	
Ithaca C.	240	ne		ne		ne		165		2		0		0		47		116	
CUNY, Lehman C.	241	646		814		686		163		1		0		0		162		0	
U. Puerto Rico, Mayaguez	241	92		40		40		163		0		3		0		160		0	
Towson U.	243	14		90		149		162		134		0		0		0		28	
U. Northern Colorado	244	64		167		63		161		88		0		0		73		0	
Des Moines U.	245	0		25		71		159		159		0		0		0		0	
U. Guam	246	231		174		255		154		0		0		0		154		0	
Alabama A&M U.	247	408	i	315	i	223	i	152	i	0	i	0	i	14	i	58	i	80	i
U. Tulsa	248	19		16		75		145		145		0		0		0		0	
Saint Joseph's U.	249	3		0		64		143		0		0		0		0		143	
U. Louisiana, Monroe	249	125		235		182		143		0		0		0		0		143	
Pomona C.	251	68		77		116		138		0		0		138		0		0	
California State U., Dominguez Hills	252	1		37		0		137		0		0		0		137		0	
Chapman U.	253	0		27		179		136		0		42		0		0		94	
Seattle U.	254	0		207		122		132		0		0		0		0		132	
Stephen F. Austin State U.	255	60		103		27		131		0		0		0		0		131	
Central Michigan U.	256	47		12		120		130		0		0		0		88		42	
Creighton U.	257	153	i	98	i	141	i	129	i	3	i	12	i	15	i	37	i	62	i

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Spelman C.	257	57	208	43	129	0	129	0	0	0
U. North Florida	259	131	248	228	128	0	7	0	111	10
U. Puerto Rico, Rio Piedras	260	355	106	332	127	0	0	0	0	127
Florida Atlantic U.	261	22	67	111	126	0	0	0	0	126
Furman U.	261	18	17	13	126	0	0	0	1	125
North Carolina Central U.	261	519	450	457	126	0	0	0	0	126
SUNY, Buffalo State	264	133	146	146	123	0	0	0	0	123
Texas Christian U.	265	77	47	232	121	0	0	0	121	0
U. Colorado Denver and Anschutz Medical Campus	265	323	314	111	121	60	0	0	24	37
U. Maine	265	554	379	394	121	0	112	0	0	9
U. Hawaii, Hilo	268	128	154	130	116	6	0	0	0	110
California State U., Sacramento	269	446	1,007	132	113	42	55	0	0	16
Southern Methodist U.	269	62	97	356	113	113	0	0	0	0
Rensselaer Polytechnic Institute	271	178	182	186	101	0	0	0	0	101
Pittsburg State U.	272	186	0	0	99	0	99	0	0	0
Catholic U. of America	273	0	33	0	98	0	98	0	0	0
Southern Illinois U., Carbondale	274	90	104	183	94	0	0	0	93	1
Santa Clara U.	275	183	170	110	89	25	35	29	0	0
Illinois Institute of Technology	276	482	251	131	88	0	0	0	0	88
CUNY, Queens C.	277	140	246	306	85	19	0	0	59	7
Emerson C.	278	0	15	0	84	0	0	0	35	49
Pacific U.	278	0	82	82	84	0	84	0	0	0
U. Wisconsin-La Crosse	280	39	13	74	83	0	55	0	0	28
Western Michigan U. and Homer Stryker M.D. School of Medicine	280	256	226	330	83	0	0	0	78	5
Grand Valley State U.	282	0	6	0	80	0	58	0	22	0
San Jose State U.	282	173	76	36	80	0	0	0	0	80
Rutgers, State U. New Jersey, Camden	284	98	188	57	79	0	0	0	58	21

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Davidson C.	285	30	52	135	78	35	0	0	43	0
Florida Gulf Coast U.	285	59	1	57	78	40	0	38	0	0
Carleton C.	287	13	0	25	76	0	0	0	0	76
Humboldt State U.	287	108	132	107	76	34	15	0	0	27
Claflin U.	289	0	0	0	75	0	75	0	0	0
U. Washington, Tacoma	289	0	0	36	75	0	0	0	0	75
Bates C.	291	0	0	259	73	65	3	0	5	0
Middle Tennessee State U.	292	57	429	15	66	39	0	0	27	0
U. North Dakota	292	29	18	151	66	0	25	0	13	28
Middlebury C.	294	51	58	122	65	0	60	5	0	0
U. San Francisco	294	0	0	0	65	0	0	0	0	65
Indiana U. Pennsylvania	296	172	62	183	64	64	0	0	0	0
Montclair State U.	297	8	63	140	63	7	0	0	56	0
Bowdoin C.	298	44	40	90	62	62	0	0	0	0
Fordham U.	298	100	90	83	62	0	0	0	62	0
Barnard C.	300	85	111	91	61	0	42	0	19	0
U. San Diego	300	35	196	312	61	0	0	0	0	61
Baylor U.	302	85	24	83	60	0	0	0	60	0
Vassar C.	302	53	382 i	83	60	1	0	59	0	0
U. Maryland Center for Environmental Science	304	0	48	73	59	0	59	0	0	0
CUNY, York C.	305	ne	ne	0	58	0	0	0	0	58
Texas A&M U.-Corpus Christi	305	18	38	37	58	0	45	0	0	13
Gallaudet U.	307	17	0	0	56	0	0	0	0	56
Swarthmore C.	307	24	0	75	56	0	56	0	0	0
Mount Holyoke C.	309	130	235	151	53	0	0	0	53	0
Northern Michigan U.	309	5	0	0	53	0	53	0	0	0
Williams C.	309	380	140	55	53 i	0 i	53 i	0 i	0 i	0 i
Arkansas State U., Jonesboro	312	290	167	34	52	0	52	0	0	0
Northeastern Illinois U.	313	0	0	82	48	0	0	0	0	48
Oberlin C.	314	9	37	37	47	0	0	47	0	0
Trinity C., Hartford	315	24	55	80	46	46	0	0	0	0
U. Colorado Colorado Springs	315	0	0	3	46	0	0	0	0	46

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
North Carolina Agricultural and Technical State U.	317	0		0		0		45		0		0		0		45		0	
Texas A&M U.-Commerce	318	0		0		0		44		0		44		0		0		0	
U. Texas, Arlington	319	12		44		75		43		0		0		0		0		43	
Fort Lewis C.	320	ne		ne		34		42		42		0		0		0		0	
Morgan State U.	321	167		118		0		40		0		0		0		0		40	
Pepperdine U.	322	108		9		17		37		0		0		0		37		0	
Northeast Ohio Medical U.	323	49		109		78		35		35		0		0		0		0	
SUNY, C. Brockport	323	0		5		33		35		0		0		0		23		12	
Jackson State U.	325	213		85		106		34		0		0		34		0		0	
California State U., Fullerton	326	33		8		1		33		0		0		0		0		33	
U. Wisconsin-Oshkosh	326	32	i	33	i	32	i	33	i	2	i	6	i	5	i	20	i	0	i
Missouri U. of Science and Technology	328	41		95		63		32		0		32		0		0		0	
Youngstown State U.	328	32		50		36		32		0		0		0		0		32	
Grinnell C.	330	0		0		28		30		0		0		0		30		0	
U. Houston-Clear Lake	330	99		23		45		30		0		0		0		30		0	
Rhode Island C.	332	0		0		19		27		0		0		0		27		0	
SUNY, Geneseo	332	32		75		50		27		0		0		0		0		27	
Hamilton C.	334	10		63		22		26		0		0		26		0		0	
U. of St. Thomas (MN)	334	0		0		0		26		0		26		0		0		0	
California State U., Bakersfield	336	0		0		50		25		0		0		0		0		25	
SUNY, C. of Environmental Science and Forestry	336	221		161		172		25		0		1		3		0		21	
U. Missouri, Kansas City	336	137		58		82		25		0		0		0		0		25	
Wesleyan U.	339	0		0		0		24		0		0		24		0		0	
U. Wisconsin-Green Bay	340	33	i	15	i	21	i	23	i	1	i	2	i	2	i	8	i	10	i
Elon U.	341	0		0		0		22		22		0		0		0		0	
Mercer U.	342	0		0		0		20		0		0		0		0		20	
Southern Illinois U., Edwardsville	343	45		22		24		19		19		0		0		0		0	
U. Akron	343	41		46		56		19		19		0		0		0		0	

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017		2018		2019		2020											
								All social sciences		Anthropology		Economics		Political science and government		Sociology, demography, and population studies		Social sciences nec	
U.S. Military Academy	343	1,267		138		78		19		0		0		0		0		19	
Niagara U.	346	0		125		114		18		0		0		0		0		18	
Oakland U.	346	0		0		52		18		18		0		0		0		0	
Sul Ross State U.	346	1		49		9		18		0		0		0		0		18	
U. Wisconsin-Platteville	346	21	i	ne		18	i	18	i	0	i	0	i	7	i	4	i	7	i
Wichita State U.	350	21		5		26		17		17		0		0		0		0	
Clarkson U.	351	35		32		28		16		0		0		16		0		0	
Rhode Island School of Design	351	0	i	12	i	17	i	16	i	0	i	0	i	0	i	0	i	16	i
U. Tennessee, Chattanooga	351	56		81		70		16		0		0		0		16		0	
Minnesota State U., Mankato	354	208		353		304		15		15		0		0		0		0	
Whitman C.	354	ne		ne		13		15		0		0		0		15		0	
East Tennessee State U.	356	102		890		249		14		0		0		0		14		0	
Texas Woman's U.	356	0		0		0		14		0		0		0		0		14	
Christopher Newport U.	358	0		78		0		13		0		0		13		0		0	
Macalester C.	358	67		43		50		13		0		0		0		0		13	
U. South Dakota	358	0		7		2		13		13		0		0		0		0	
Haverford C.	361	6		0		0		12		0		12		0		0		0	
Mercyhurst U.	361	0	i	ne		11	i	12	i	0	i	0	i	2	i	0	i	10	i
Saginaw Valley State U.	361	16		0		28		12		0		0		0		12		0	
St. Cloud State U.	361	12		0		41		12		0		0		0		0		12	
Wake Forest U.	361	85		41		38		12		0		0		0		12		0	
Kennesaw State U.	366	0		2		11		11		0		0		0		0		11	
Western Kentucky U.	366	64		34		10		11		11		0		0		0		0	
Colgate U.	368	32		98		47		10		0		0		0		10		0	
Lamar U.	368	0		2		0		10		0		0		0		0		10	
St. Olaf C.	368	1		16		0		10		1		0		5		0		4	
U. South Florida, Sarasota-Manatee	368	0		0		0		10		0		0		0		0		10	
U. Texas Rio Grande Valley	368	193		176		196		10		0		10		0		0		0	
Biola U.	373	8	i	9	i	9	i	9	i	0	i	0	i	1	i	3	i	5	i
Georgia Southern U.	373	54		59		21		9		0		3		0		6		0	
James Madison U.	375	81		60		25		8		0		0		0		0		8	
Lipscomb U.	375	ne		ne		ne		8	i	0	i	1	i	1	i	2	i	4	i

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Pennsylvania State U., Harrisburg	377	32	0	5	7	0	0	0	7	0
U. Massachusetts, central office	377	107	154	124	7	0	0	0	7	0
U. Minnesota, Duluth	377	0	5	0	7	0	0	0	0	7
DePaul U.	380	31	15	10	6	0	0	0	0	6
Tennessee State U.	380	120	0	3	6	0	0	0	0	6
Bryn Mawr C.	382	8	5	7	5	5	0	0	0	0
Occidental C.	382	105	38	8	5	0	0	0	0	5
Colorado C.	384	0	6	0	4	4	0	0	0	0
CUNY, C. Staten Island	384	47	7 i	8	4	4	0	0	0	0
Lincoln U., Jefferson City	384	89	4	1	4	0	4	0	0	0
Pennsylvania State U., Behrend	384	12	0	1	4	0	0	0	4	0
Purdue U., Fort Wayne	384	1	44	0	4	0	4	0	0	0
Purdue U., Northwest	384	0	0	0	4	0	4	0	0	0
U. Arkansas, Little Rock	384	0	27	64	4	0	0	0	0	4
U. Texas, Tyler	384	0	0	34	4	0	0	0	4	0
Augusta U.	392	30	23	15	3	0	0	0	0	3
California State U., Stanislaus	392	4	11	0	3	0	0	0	0	3
Eastern Michigan U.	392	31	32	31	3	0	0	0	3	0
Morehouse C.	392	41	80	26	3	0	3	0	0	0
Salisbury U.	392	0	0	0	3	0	3	0	0	0
U. of Mary Washington	392	ne	17	0	3	3	0	0	0	0
Bucknell U.	398	35 i	34	2	2 i	0 i	0 i	0 i	2 i	0 i
Fisk U.	398	0	0	0	2	0	2	0	0	0
Reed C.	398	5	29	26	2	0	0	0	2	0
Central Washington U.	401	22	1	0	1	1	0	0	0	0
Dickinson C.	401	0	ne	0	1	0	0	0	0	1
Monmouth U.	401	ne	ne	29	1	1	0	0	0	0
Northern Kentucky U.	401	7	0	1	1	0	0	0	1	0
U. Massachusetts, Dartmouth	401	8	0	115	1	0	0	0	0	1

TABLE 53

Federally financed higher education R&D expenditures in the social sciences, ranked by all FY 2020 social sciences: FYs 2017–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2017	2018	2019	2020					
					All social sciences	Anthropology	Economics	Political science and government	Sociology, demography, and population studies	Social sciences nec
Winthrop U.	401	25	3	14	1	0	0	0	0	1
All other surveyed institutions	-	43,043	48,653	4,161	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $4,495 thousand in federally financed R&D expenditures in social sciences in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
All institutions	-	11,911,403	12,363,782	13,216,209	13,692,756	6,828,853	7,093,806	7,668,349	8,120,891
Johns Hopkins U.[a]	1	1,080,021 i	1,087,478 i	1,147,335 i	1,205,632 i	1,030,067	1,038,797	1,100,587	1,154,993
Georgia Institute of Technology	2	578,662	613,650	664,695	695,176	426,068	466,780	506,061	537,693
Massachusetts Institute of Technology	3	432,453	431,927	450,915	419,636	221,898	220,744	230,312	213,108
Pennsylvania State U., University Park and Hershey Medical Center	4	312,341	325,002	350,391	367,730	233,587	244,868	258,324	277,345
Texas A&M U., College Station and Health Science Center	5	287,620	300,956	321,373	357,559	62,158	70,000	77,456	95,138
SUNY, Polytechnic Institute	6	305,576	255,033	350,793	353,542	38,545	39,897	36,816	26,696
U. Michigan, Ann Arbor	7	286,094	299,072	291,887	283,329	180,969	178,020	175,137	176,141
Purdue U., West Lafayette	8	231,103	229,967	270,525	280,592	105,798	105,657	111,292	122,469
Virginia Polytechnic Institute and State U.	9	226,810	245,755	258,213	263,711	84,497	98,261	104,138	107,677
U. Texas, Austin	10	239,499	242,963	249,788	259,935	148,099	154,761	160,506	175,426
Utah State U.	11	111,780	140,407	202,345	226,616	100,965	124,950	183,794	206,998
U. California, Berkeley	12	189,550	200,668	200,122	209,293	73,820	75,316	81,194	79,645
U. Illinois, Urbana-Champaign	13	192,878	195,413	201,028	203,564	122,848	126,826	130,075	131,529
U. California, San Diego	14	125,033	150,596	172,919	182,495	67,172	73,246	88,846	97,602
Ohio State U.	15	178,028	183,646	177,518	175,109	75,799	84,724	85,547	85,038
North Carolina State U.	16	158,389	166,680	174,590	174,740	83,799	84,304	91,264	94,592
U. Colorado Boulder	17	176,988	171,965	152,391	160,423	85,054	86,829	92,099	105,890
Arizona State U.	18	135,169	142,175	152,395	155,015	60,045	61,096	72,655	80,121
U. Maryland[b]	19	na	na	158,814	153,109	na	na	86,168	86,398
U. Dayton	20	122,338	139,036	157,016	153,082	109,805	127,079	146,841	145,508
U. Washington, Seattle	21	136,318	149,931	155,076	152,919	98,022	103,714	108,560	114,031
Wichita State U.	22	62,444	63,328	109,248	134,848	17,734	13,677	22,954	46,023
U. Wisconsin-Madison	23	148,949	118,576	126,587	133,600	87,881	63,684	68,617	73,412
Stanford U.	24	125,627	146,504	134,585	130,950	86,833	91,628	79,988	81,391
U. Tennessee, Knoxville[c]	25	113,852	128,675	116,528	128,542	61,438	62,428	67,165	66,562
Cornell U.	26	85,162	92,590	110,545	123,703	51,604	55,763	63,696	69,870

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Minnesota, Twin Cities	27	123,835	124,637	120,976	120,929	63,781	67,776	71,695	74,167
U. Florida	28	97,826	93,580	107,598	119,066	49,985	49,486	60,844	62,573
SUNY, U. Buffalo	29	93,965	95,234	95,040	112,843	54,253	53,279	50,811	61,140
Iowa State U.	30	95,306	99,214	104,798	109,473	40,035	43,677	43,241	62,369
Carnegie Mellon U.	31	98,781	99,201	95,496	102,955	55,895	53,672	49,854	56,175
New York U.	32	79,801	85,767	99,711	100,207	11,912	13,790	14,986	15,445
U. California, Davis	33	85,557	89,128	92,277	97,951	34,594	35,375	37,549	37,203
Harvard U.	34	105,231	96,786	95,651	97,884	62,792	51,742	45,835	52,801
Duke U.	35	80,554	92,715	100,379	95,657	63,439	64,601	72,560	73,605
Vanderbilt U. and Vanderbilt U. Medical Center	36	83,560	87,250	94,340	94,674	44,770	47,036	52,742	52,373
U. California, Los Angeles	37	80,153	91,799	95,797	93,520	44,469	50,048	52,488	49,163
Rice U.	38	73,297	67,934	77,299	91,913	36,165	34,520	37,781	42,085
Northeastern U.	39	53,443	65,147	79,836	89,954	36,564	48,634	61,116	66,614
U. California, Santa Barbara	40	73,594	77,535	67,395	87,681	36,323	35,964	33,589	43,340
Boston U.	41	64,275	83,013	78,154	85,651	36,082	42,903	45,017	53,265
U. Notre Dame	42	75,064	77,243	89,702	84,478	37,603	36,062	40,258	41,771
Woods Hole Oceanographic Institution	43	61,402	61,221	83,974	84,333	52,263	52,285	72,016	75,442
Michigan State U.	44	61,918	77,165	79,638	82,690	27,668	27,900	29,787	31,431
U. Pennsylvania	45	64,279	67,574	78,444	82,299	35,965	36,750	39,422	44,542
New Jersey Institute of Technology	46	59,726	69,735	78,455	82,047	37,648	41,611	53,994	53,702
U. Arizona	47	62,925	70,100	75,555	79,463	29,669	30,716	35,880	34,459
U. Southern California	48	69,226	72,961	76,180	78,005	39,663	46,803	52,737	55,089
Northwestern U.	49	84,520	81,662	80,413	77,150	48,089	48,724	47,948	49,383
Clemson U.	50	65,885	73,506	76,739	76,971	30,795	33,781	39,395	38,214
U. Delaware	51	40,177	52,932	66,447	74,258	31,785	37,656	47,975	53,448
Columbia U. in the City of New York	52	67,996	72,301	72,596	72,758	57,636	61,834	59,672	62,020
U. Virginia, Charlottesville	53	48,285	70,000	83,072	72,602	30,045	38,600	43,878	41,454
Auburn U., Auburn	54	56,657	56,233	59,742	70,593	23,274	21,497	25,694	28,796
Mississippi State U.	55	49,856	48,399	60,183	69,220	26,419	24,187	33,935	45,520
Princeton U.	56	70,261	67,450	65,000	67,014	47,262	42,147	41,480	40,829
U. Central Florida	57	55,792	62,734	62,258	62,071	23,499	33,002	33,413	35,514
U. California, Irvine	58	53,016	70,449	55,995	59,695	26,637	26,914	24,021	27,421

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Texas, Arlington	59	41,258	48,513	54,450	59,395	17,441	20,698	22,053	22,163
U. Massachusetts, Amherst	60	53,718	54,219	49,745	58,804	27,264	27,568	26,896	28,635
Rensselaer Polytechnic Institute	61	59,446	57,190	59,831	57,923	29,363	28,136	28,307	28,960
U. Utah	62	39,993	42,053 i	55,478 i	57,608 i	30,543	25,847	32,365	34,915
Florida State U.	63	50,234	56,281	56,352	56,493	31,794	39,060	39,126	38,126
Rutgers, State U. New Jersey, New Brunswick	64	75,760	104,371	92,937	55,880	38,224	35,299	35,917	40,629
U. Houston	65	54,497	50,047	51,806	55,210	19,323	21,593	23,838	24,929
U. Pittsburgh, Pittsburgh	66	43,801	44,995	46,075	53,586	27,229	27,599	31,347	36,623
U. Missouri, Columbia	67	43,053	44,864	48,028	53,343	10,079	12,483	14,331	16,905
U. Alabama, Birmingham	68	47,730	48,102	47,555	53,030	36,558	38,086	37,724	44,243
U. North Dakota	69	43,485	52,960	54,760	52,511	20,059	30,506	28,684	20,330
George Mason U.	70	11,185	15,785	36,101	52,423	8,870	13,550	31,276	45,977
California Institute of Technology	71	61,771	45,494	46,972	51,693	28,501	22,700	24,690	26,324
U. Nebraska, Lincoln	72	48,890	49,434	53,932	51,685	18,514	18,358	20,375	21,149
U. Alabama, Huntsville	73	32,555	34,105	40,733	51,198	22,595	24,961	31,957	42,499
Oregon State U.	74	51,184	49,271	49,587	50,900	33,223	34,437	36,090	35,946
U. Texas, Dallas	75	45,588	43,363	48,666	50,812	14,837	15,884	19,512	21,594
U. Iowa	76	54,200	50,848	50,377	48,433	23,137	22,494	21,473	20,687
U. Kentucky	77	45,416	47,821	50,743	46,976	23,967	25,067	28,999	26,818
U. Connecticut	78	39,840	39,907	44,044	46,751	22,275	22,920	26,390	30,450
Colorado School of Mines	79	32,824	35,504	44,195	46,694	20,764	23,277	31,066	33,432
Michigan Technological U.	80	39,627	45,745	47,435	45,263	16,068	19,638	21,801	23,332
U. Cincinnati	81	33,618	44,588	46,889	43,098	11,038	10,598	12,015	11,447
Texas Tech U.	82	46,553	40,249	44,057	42,856	9,809	10,888	14,017	14,399
Colorado State U., Fort Collins	83	40,921	38,919	42,609	42,839	28,929	29,104	31,135	30,860
U. South Carolina, Columbia	84	30,893	31,294	31,748	42,804	16,166	15,596	16,076	15,010
U. New Mexico	85	36,052	35,067	37,950	42,739	27,345	27,521	30,449	34,153
U. California, Santa Cruz	86	33,669	29,724	39,111	41,752	21,460	18,845	25,568	22,817
West Virginia U.	87	36,747	37,520	42,516	40,786	18,587	18,904	19,835	15,930
Louisiana State U., Baton Rouge	88	41,065	44,604	45,803	40,084	9,822	11,227	11,587	10,268

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Florida International U.	89	29,106	31,410	35,138	39,826	15,502	17,220	19,899	21,747
Washington State U.	90	46,444	43,674	39,578	39,533	19,209	19,156	18,943	20,360
Montana State U., Bozeman	91	25,633	25,643	36,521	38,833	17,969	18,950	25,349	28,753
Case Western Reserve U.	92	40,120	46,184	41,228	37,911	31,395	33,187	29,335	27,954
U. Arkansas, Fayetteville	93	32,981	36,132	34,590	37,758	14,228	15,886	14,659	18,074
Mercer U.	94	23,942	23,532	32,624	37,450	18,153	17,021	25,358	29,625
U. South Florida, Tampa	95	46,796	45,487	45,508	37,162	24,425	24,747	22,743	18,073
Yale U.	96	30,905	35,939	36,591	36,806	19,546	23,606	24,674	24,172
U. Maine	97	22,065	27,459	32,368	36,760	7,708	10,014	13,614	18,038
U. Oklahoma, Norman and Health Science Center	98	24,840	23,293	26,569	36,643	12,372	12,084	13,783	15,069
Missouri U. of Science and Technology	99	31,077	33,241	37,912	36,447	15,125	16,249	17,811	16,411
U. Massachusetts, Lowell	100	20,422	27,676	33,128	35,847	7,695	11,828	13,443	14,870
Oklahoma State U., Stillwater	101	39,179	37,003	32,947	33,983	15,538	11,982	11,962	11,969
Stevens Institute of Technology	102	24,180	22,396	25,832	33,103	17,298	16,994	18,945	23,906
U. Alabama, Tuscaloosa	103	19,382	24,667	31,845	33,019	8,986	10,874	16,390	19,679
SUNY, Binghamton U.	104	26,681	35,406	30,434	32,668	4,936	6,470	6,356	6,526
U. California, Riverside	105	29,971	29,206	29,020	31,937	15,932	16,293	16,217	17,034
U. Illinois, Chicago	106	23,478	25,079	28,226	31,496	11,897	13,558	14,707	17,537
Drexel U.	107	32,240	31,625	31,330	31,230	20,342	21,222	20,443	19,772
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	29,893	31,903	31,110	31,140	20,668	21,403	21,279	21,064
U. North Carolina, Chapel Hill	109	29,932	28,509	31,825	30,774	18,086	19,456	19,251	17,813
SUNY, Stony Brook U.	110	32,483	28,015	28,632	30,180	15,587	15,013	15,637	15,329
U.S. Air Force Academy	111	33,831	28,645	28,489	29,812	31,629	26,453	28,489	29,812
Virginia Commonwealth U.	112	23,146	20,262	26,072	29,811	6,870	7,362	9,482	11,779
Wright State U.	113	34,024	43,039	39,164	29,519	20,850	28,136	25,868	23,496
Kansas State U.	114	24,976	26,577	27,439	28,155	8,976	9,819	12,503	12,530

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Louisiana, Lafayette	115	9,569	13,188	28,397	27,878	845	783	4,247	3,557
Tufts U.	116	20,037	27,130	31,630	26,662	13,858	22,470	26,143	20,397
Old Dominion U.	117	19,086	17,074	19,294	25,869	10,931	7,601	8,179	11,802
U. Hawaii, Manoa	118	21,992	21,367	17,089	25,423	16,702	15,744	10,777	17,536
U. Texas, El Paso	119	27,643	27,260	26,586	25,172	14,621	15,228	11,995	11,812
New Mexico State U.	120	26,947	23,067	25,892	25,030	18,248	14,388	17,202	15,583
U. Chicago	121	12,066	16,388	23,773	24,468	10,546	12,919	17,275	20,168
Syracuse U.	122	23,081	22,145	25,412	24,272	8,408	9,100	7,616	7,696
Lehigh U.	123	23,562	24,564	23,447	24,054	16,202	16,053	15,374	16,205
Brown U.	124	24,798	28,149	23,448	23,965	17,904	20,893	17,289	17,138
Air Force Institute of Technology	125	26,096	22,908	20,525	23,947	18,736	16,075	14,015	15,238
U. Nevada, Reno	126	16,982	19,373	23,568	23,939	8,102	7,474	8,785	9,664
Washington U., Saint Louis	127	24,627	24,238	23,090	23,821	21,173	20,596	18,895	19,552
Worcester Polytechnic Institute	128	21,355	20,617	21,029	23,758	12,191	10,668	11,735	13,084
U. New Hampshire	129	22,103	19,239	23,861	23,457	10,218	9,291	12,286	11,466
CUNY, City C.	130	26,479	28,252	28,337	23,140	15,021	17,753	16,998	15,704
Naval Postgraduate School	131	18,739	19,675	22,498	22,933	16,272	17,019	20,124	20,145
U. Texas, San Antonio	132	17,717	17,781	19,928	22,922	6,534	5,947	5,949	5,961
George Washington U.	133	16,438	17,136	21,712	22,682	10,791	10,987	14,597	15,091
Rochester Institute of Technology	134	21,517	18,611	20,264	20,910	9,880	8,298	8,136	7,965
U. Wyoming	135	39,901	36,672	19,550	20,317	8,326	4,369	6,075	4,640
U. Kansas	136	17,856	17,481	20,869	19,830	11,002	10,149	14,177	13,829
U. North Carolina, Charlotte	137	7,972	11,933	16,000	19,781	5,716	6,776	7,845	8,853
U. Georgia	138	15,071	21,346	18,444	19,273	5,393	4,964	6,292	7,208
U. Louisville	139	17,536	17,321	16,302	18,105	5,943	6,949	8,248	9,077
U. Alaska, Fairbanks	140	17,627	14,027	14,922	17,843	5,140	7,642	9,090	11,998
U. Idaho	141	16,894	17,190	17,497	17,035	7,876	7,521	8,525	8,376
U. Puerto Rico, Mayaguez	142	12,898	13,704	16,446	16,903	6,211	7,275	8,892	9,428
Ohio U.	143	23,201 i	21,226 i	19,502	16,291	6,144	5,512	5,252	4,454
Cleveland State U.	144	15,635	15,184	17,278	16,225	9,469	8,971	11,036	11,055
U. Rochester	145	10,596	13,418	14,872	16,116	7,098	9,658	11,814	12,764

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Brigham Young U., Provo	146	14,904	14,827	14,001	15,943	8,940	8,727	9,188	11,438
U. North Texas, Denton	147	12,485	13,114	15,773	15,205	5,943	7,918	5,962	3,805
U. California, Merced	148	11,823	12,912	13,852	15,191	5,221	4,957	4,652	5,760
Indiana U., Bloomington	149	6,194	7,928	11,265	14,294	4,043	3,649	4,864	6,314
North Dakota State U.	150	13,053	11,555	12,030	14,007	2,600	2,750	3,254	3,085
Boise State U.	151	9,717	11,907	11,688	13,956	4,824	6,297	6,377	8,245
U. Mississippi	152	7,247	5,462	8,821	13,661	2,657	3,137	4,752	12,422
U. Tulsa	153	13,770	14,054	13,213	13,182	1,760	1,647	1,520	1,387
New Mexico Institute of Mining and Technology	154	11,260	13,245	14,043	13,084	10,048	12,044	13,004	11,869
Oregon Health and Science U.	155	16,233	11,941	12,134	12,856	8,665	8,694	10,649	9,549
Wayne State U.	156	16,668	17,235	14,634	12,806	6,063	6,264	6,640	5,947
U. Nevada, Las Vegas	157	12,018	16,192	15,736	12,729	6,582	7,839	6,161	4,946
South Dakota School of Mines and Technology	158	13,572	13,111	11,226	12,677	9,199	8,581	7,570	8,887
Embry-Riddle Aeronautical U.	159	11,223	12,926	8,374	12,015	9,113	10,728	6,291	7,943
Illinois Institute of Technology	160	12,117	12,976	15,241	11,934	9,160	10,861	12,061	9,230
Rowan U.	161	4,062	5,541	8,447	11,784	2,300	3,386	4,229	7,616
Louisiana Tech U.	162	9,552	10,333	11,513	11,459	3,525	3,948	4,263	4,582
Emory U.	163	4,872	6,000	9,614	11,349	2,910	2,925	6,256	8,676
U. Akron	164	24,042	18,878	16,650	11,345	11,311	8,155	6,447	5,096
U. Vermont	165	8,743	7,712	7,864	11,209	7,027	5,683	5,190	4,853
U. Memphis	166	8,077	9,806	9,464	10,741	2,503	3,063	2,489	2,513
Florida Atlantic U.	167	8,585	12,099	11,450	10,574	4,384	6,467	7,007	6,955
North Carolina Agricultural and Technical State U.	168	12,648	13,123	11,766	10,393	10,538	10,933	9,713	8,664
Missouri State U.	169	1,198	2,200	3,234	10,257	1,120	2,200	3,176	10,096
Villanova U.	170	7,988	9,293	9,612	10,193	1,571	1,535	1,543	1,375
U. Rhode Island	171	7,642	7,910	10,632	10,182	4,352	5,282	7,329	6,939
Marquette U.	172	8,915	7,898	8,988	10,059	2,566	2,424	3,033	4,291
U. Toledo	173	10,161	10,410	11,256	10,023	5,177	5,781	6,062	5,921
Southern Methodist U.	174	6,174	6,835	9,207	9,798	3,053	3,220	5,145	5,103
U. Wisconsin-Milwaukee	175	9,745	10,024	9,915	9,683	2,229	2,373	2,537	2,940
Clarkson U.	176	10,487	12,058	10,889	9,363	4,371	5,553	5,883	4,584
Temple U.	177	6,558	7,719	8,042	9,294	3,462	4,142	3,830	4,758

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Medical C. Wisconsin	178	0	6,669	7,800	8,542	0	4,864	6,029	6,389
U. Missouri, Kansas City	179	3,314	4,385	7,089	8,351	1,011	2,105	5,349	6,902
U. Nebraska, central administration	180	ne	2,800	1,687	8,340	ne	2,800	1,687	8,340
Howard U.	181	8,402	9,112	8,401	8,336	7,212	7,260	6,046	6,241
U. Massachusetts, Dartmouth	182	7,666	7,404	7,764	7,944	2,598	2,751	2,696	2,170
San Diego State U.	183	8,935	8,534	8,197	7,934	4,310	4,026	3,801	3,851
California State U., Sacramento	184	7,527	7,196	7,507	7,744	2,969	3,282	3,443	3,150
Tennessee Technological U.	185	5,927	7,301	7,267	7,559	2,451	2,539	2,402	2,756
U.S. Naval Academy	186	7,414	7,823	7,482	7,376	7,335	7,667	7,311	7,202
Morgan State U.	187	3,795	3,002	3,990	7,228	3,202	2,366	3,376	4,847
Indiana U.-Purdue U., Indianapolis	188	6,221	6,034	6,730	7,179	3,025	3,054	3,298	4,369
U. Michigan, Dearborn	189	6,870	6,503	6,832	7,088	1,509	844	1,129	1,681
Texas A&M U.-Corpus Christi	190	4,820	7,089	7,193	7,064	1,260	2,121	2,020	2,800
Texas State U.	191	4,248	3,504	4,611	6,892	1,832	1,066	623	746
Tulane U.	192	6,801	7,435	8,416	6,881	3,224	3,965	4,170	4,050
Portland State U.	193	7,488	9,010	9,160	6,719	4,107	4,531	4,887	4,113
U. Maryland, Baltimore County	194	14,075	8,715	8,429	6,671	10,509	6,204	4,862	4,651
U. Colorado Denver and Anschutz Medical Campus	195	5,331	4,610	5,003	6,180	2,330	2,414	4,046	4,944
U. Southern Mississippi	196	1,521	1,214	3,371	5,999	1,521	1,214	3,286	1,823
Tuskegee U.	197	6,532 i	5,297	5,372	5,922	5,197	5,197	4,097	4,177
South Dakota State U.	198	5,807	5,391	5,516	5,490	3,238	3,283	2,925	2,674
Florida Institute of Technology	199	6,593	5,427	4,782	5,362	2,379	2,306	2,391	3,305
U.S. Military Academy	200	3,668	3,020	3,799	5,297	3,668	3,020	3,799	5,252
Prairie View A&M U.	201	3,359	3,835	5,121	5,222	2,151	2,641	3,183	3,184
Western Michigan U. and Homer Stryker M.D. School of Medicine	202	5,921	5,810	5,595	5,091	2,715	2,590	1,945	1,580
U. Miami	203	5,969	5,201	5,400	5,060	3,242	2,658	2,532	2,128

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Idaho State U.	204	5,660	4,725	4,039	5,014	2,575	1,815	1,203	2,491
Northern Arizona U.	205	3,515	4,454	2,613	4,996	763	1,043	1,106	3,649
Florida A&M U.	206	2,485	2,844	4,477	4,796	2,117	2,298	4,057	4,492
California State U., Long Beach	207	2,269	5,150	4,223	4,733	1,044	3,008	2,109	2,533
California Polytechnic State U., San Luis Obispo	208	4,196	3,542	4,117	4,646	2,707	2,136	1,566	1,338
Baylor U.	209	4,938	4,494	3,720	4,515	1,297	1,189	1,440	1,271
U. Denver	210	4,940	3,992	4,010	4,461	1,524	1,558	1,879	2,109
Montana Technological U.	211	4,887	4,464	4,428	4,331	3,799	3,239	3,606	3,161
Humboldt State U.	212	5,625	4,118	5,232	4,261	3	4	16	153
U. Texas Rio Grande Valley	213	4,534	4,226	3,573	4,018	3,283	2,798	1,134	1,761
Miami U.	214	2,887	2,271	3,070	3,783	825	281	361	667
U. South Alabama	215	2,852	1,956	2,411	3,640	1,025	1,098	1,467	2,624
Catholic U. of America	216	1,937	1,973	2,587	3,518	1,549	1,610	1,961	2,925
Youngstown State U.	217	3,712	4,044	3,993	3,491	2,680	3,333	2,667	2,818
SUNY, U. Albany	218	1,214	1,941	3,087	3,319	24	74	512	1,039
U. Tennessee, Chattanooga	218	1,454	1,674	2,460	3,319	425	589	1,216	2,277
New School	220	37	1,797	2,828	3,205	37	0	99	116
California State U., Maritime Academy	221	1,860	2,924	2,959	3,202	206	550	617	621
Milwaukee School of Engineering	222	2,792	2,936	3,825	3,105	340	631	695	613
East Carolina U.	223	546	1,276	2,015	3,053	182	267	475	366
San Jose State U.	224	1,076	1,451	1,864	2,863	569	699	1,029	1,575
Kent State U.	225	1,492	1,857	2,330	2,743	920	1,183	1,860	1,278
Alfred U.	226	3,168	3,599	5,032	2,720	854	1,374	1,459	887
North Carolina Central U.	227	0	0	1,212	2,675	0	0	789	1,929
Texas A&M U.-Kingsville	228	2,337	1,906	1,827	2,653	1,261	964	1,187	1,830
Saint Louis U.	229	1,027	1,346	2,344	2,621	280	486	1,176	1,549
Purdue U., Northwest	230	2,904	2,307	1,352	2,521	1,459	675	376	1,128
U. North Carolina, general administration	231	2,313	2,311	2,239	2,467	78	49	189	552
U. North Florida	232	2,320	2,832	2,392	2,433	581	439	360	304
California State U., San Marcos	233	306	344	797	2,408	306	344	797	2,408

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
Southern Illinois U., Carbondale	234	3,427	3,381	2,905	2,333	674	386	392	180
Delaware State U.	235	962	1,807	2,248	2,332 i	760	1,500	1,218	1,269 i
CUNY, Advanced Science Research Center	236	1,019	1,564	1,379	2,289	631	1,274	1,289	1,968
U. New Orleans	237	3,422	2,447	2,376	2,282	524	392	344	250
U. Minnesota, Duluth	238	2,156	2,570	2,399	2,186	148	199	319	180
Georgia Southern U.	239	1,766	1,110	1,257	1,929	297	196	174	301
California State Polytechnic U., Pomona	240	915	1,248	1,085	1,875	479	751	728	1,141
Lamar U.	241	2,734	2,280	1,609	1,825	782	1,012	442	838
U. Oklahoma, Tulsa	242	938	1,432	1,549	1,816	477	667	919	1,066
California State U., Fresno	243	1,298	1,520	1,492	1,748	778	758	419	526
Pittsburg State U.	244	1,933	1,978	1,990	1,659	13	19	12	50
U. Arkansas, Little Rock	245	1,852	1,921	2,116	1,627	1,206	1,060	1,224	950
Alabama A&M U.	246	3,888 i	3,122 i	2,354 i	1,603 i	2,890 i	2,236 i	1,581 i	1,078 i
California State U., San Bernardino	247	4	1,133	2,434	1,598	0	0	0	0
Bucknell U.	248	1,628 i	1,733	1,632	1,550 i	585 i	561	533	512 i
Minnesota State U., Mankato	249	616	1,204	1,472	1,486	121	80	174	244
Tennessee State U.	250	2,120	1,467	1,207	1,480	1,473	1,203	824	1,142
Kennesaw State U.	251	834	549	2,044	1,478	185	111	105	74
Jackson State U.	252	4,298	3,385	3,354	1,468	3,546	2,806	2,908	1,262
Northern Illinois U.	253	1,215	1,072	1,418	1,467	332	334	222	246
California State U., Bakersfield	254	729	1,271	2,050	1,449	280	928	1,453	1,179
Southern Illinois U., Edwardsville	255	4,334	2,666	2,348	1,424	1,425	611	475	240
Southern U. and A&M C., Baton Rouge	255	852	1,523	1,905	1,424	730	1,342	1,454	1,360
U. of the District of Columbia	257	1,371	721	708	1,388	1,311	721	708	1,388
U. South Dakota	258	3,443	3,198	3,243	1,385	586	663	1,280	440
U. Colorado Colorado Springs	259	992	763	694	1,367	819	656	649	877
U. South Carolina, Aiken	260	1,404	1,490	1,520	1,331	1,404	1,490	1,453	1,331

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
San Francisco State U.	261	1,595	1,492	1,284	1,330 i	559	486	371	387 i
Norfolk State U.	262	1,819	1,501	1,940	1,312	1,791	1,501	1,940	1,312
West Texas A&M U.	263	957	1,058	1,178	1,277	388	534	477	500
Morehead State U.	264	1,887	1,592	806	1,271	1,527	1,306	754	1,208
U. San Diego	265	695	898	776	1,252	503	756	633	686
Pennsylvania State U., Behrend	266	1,151	1,112	1,508	1,232	225	277	408	337
U. Massachusetts, Boston	267	1,549	1,220	1,255	1,206	477	609	533	547
U. Nebraska, Omaha	268	779	515	993	1,195	692	398	683	859
U. Texas Medical Branch	269	1,333	2,528	1,596	1,192	726	1,093	411	276
Marshall U.	270	1,341	1,011	1,158	1,137	451	271	502	434
CUNY, system office	271	0	2,245	1,001	1,132	0	1,419	912	662
California State U., Chico	272	337	305	567	1,120	20	35	179	613
California State U., Northridge	273	980	757	714	1,115	899	700	604	926
U. Alaska, Anchorage	274	2,066	2,196	1,393	1,101	252	226	562	644
Virginia State U.	275	1,665	951	793	1,058	444	240	165	210
Kettering U.	276	2,271	1,516	1,354	1,046	689	454	184	114
Oakland U.	277	3,651	3,709	3,836	1,041	1,040	1,076	720	233
U. Hartford	278	1,304	440	1,300	1,002	957	42	791	605
Western Washington U.	279	1,258	1,489	832	989	586	535	336	475
U. of St. Thomas (MN)	280	203	617	407	976	5	29	25	19
Smith C.	281	674	563	553	952	588	477	463	725
Santa Clara U.	282	658	535	876	948	177	177	215	393
California State U., Los Angeles	283	787	762	879 i	922	414	642	688	806
SUNY, C. of Environmental Science and Forestry	284	2,975	1,245	1,339	912	429	249	259	158
U. of the Virgin Islands	285	0	87	61	902	0	87	61	834
U. Ana G. Mendez, Gurabo	286	620	501	2,324	884	4	0	575	365
Hampton U.	287	1,730	1,296	1,049	866	1,730	1,296	1,049	866
Wake Forest U.	288	0	49	385	859	0	49	148	208
Liberty U.	289	ne	ne	311	838	ne	ne	0	442
Lawrence Technological U.	290	1,470	996	882	806	552	386	210	227

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Central Michigan U.	291	650		657		559		736		334		276		162		84	
Manhattan C.	292	ne		ne		809		716		ne		ne		167		170	
Florida Polytechnic U.	293	ne		ne		1,739		689		ne		ne		283		159	
Western Kentucky U.	293	600		783		597		689		136		93		2		68	
South Carolina State U.	295	199		239	i	662		687	i	199		208	i	662		687	i
Oregon Institute of Technology	296	3,031	i	2,760	i	798	i	679	i	505	i	158		272	i	203	
U. Tennessee, Health Science Center	297	625		598		610		648		0		0		0		0	
U. North Carolina, Wilmington	298	778		1,659		1,226		640		222		531		484		335	
Savannah State U.	299	302		429		526		639		302		429		526		639	
Wellesley C.	300	0		0		0		633		0		0		0		633	
Harvey Mudd C.	301	856		596		884		628		399		340		440		175	
Bradley U.	302	1,560		885		945		617		343		180		236		214	
California State U., Fullerton	303	582		563		609		616		470		352		288		534	
Christopher Newport U.	304	332		536		575		566		332		536		575		566	
Alabama State U.	305	0		0		0		533		0		0		0		533	
U. New Haven	305	890		906		1,013		533		447		557		485		238	
Pace U.	307	1,435		735		435		516		664		395		404		464	
Fort Lewis C.	308	ne		ne		760		505		ne		ne		702		477	
Franklin W. Olin C. of Engineering	309	1,079		789		534		491		448		425		111		255	
New York Institute of Technology	310	315		698		1,045		458		315		422		697		372	
Purdue U., Fort Wayne	311	537		533		221		443		40		93		160		194	
Eastern Michigan U.	312	183		156		304		402		80		0		9		102	
U. Ana G. Mendez, Carolina	313	0		0		ne		387		0		0		ne		314	
U. Michigan, Flint	314	199		140		152		376		29		8		0		0	
Duquesne U.	315	651		588		525		374		275		208		179		146	
Arkansas State U., Jonesboro	316	496		490		553		371		140		142		180		144	
Western Carolina U.	316	108		136		365		371		96		122		269		291	
CUNY, New York City C. of Technology	318	ne		601		478		367		ne		579		442		353	
Swarthmore C.	318	311		377		314		367		205		141		55		0	

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
Johnson C. Smith U.	320	0		0		0		364		0		0		0		364	
U. Texas, Tyler	321	469		405		394		344		130		127		71		47	
U. Puerto Rico, Rio Piedras	322	3,334		326		37		341		1,188		117		37		270	
U. Wisconsin-Green Bay	323	733	i	242	i	353	i	338	i	183	i	95	i	147	i	159	i
Keck Graduate Institute	324	0	i	293	i	326	i	336	i	0	i	190	i	208	i	215	i
U. Wisconsin-Oshkosh	325	260	i	275	i	300	i	312	i	198	i	207	i	230	i	240	i
James Madison U.	326	438		105		313		305		359		56		181		186	
Hofstra U.	327	959		717		521		299		957		717		506		288	
CUNY, C. Staten Island	328	577		1	i	1		294		238		0	i	0		249	
U. West Florida	329	35		33		21		278		0		0		0		196	
Saginaw Valley State U.	330	294		242		239		277		148		136		124		105	
Oklahoma State U., Center for Health Sciences	331	100		0		309		258		62		0		54		46	
Lafayette C.	332	805		183		184		251		749		112		107		139	
Florida Gulf Coast U.	333	139		270		59		250		101		270		56		47	
Benedict C.	334	453		364		252		248		453		364		246		237	
Grand Valley State U.	335	246		40		400		236		0		0		0		0	
U. Texas of the Permian Basin	336	538		50		ne		217		328		50		ne		82	
Colorado State U., Pueblo	337	ne		ne		178		210		ne		ne		51		47	
Union C., Schenectady	338	145		119		118		204		29		32		10		81	
Middle Tennessee State U.	339	283		540		59		182		90		100		3		76	
Hope C.	340	193		55		128		175		161		52		116		138	
Claflin U.	341	5		56		145		170		5		42		144		170	
Biola U.	342	146	i	153	i	162	i	167	i	101	i	103	i	109	i	113	i
Central State U.	343	112		100		340		166		112		100		340		166	
Loyola Marymount U.	344	158		553		160		165		9		4		0		0	
Clark Atlanta U.	345	292		347		214		158		183		347		44		0	
Tarleton State U.	346	0		0		61		156		0		0		0		0	
U. Wisconsin-Platteville	347	170	i	ne		145	i	145	i	83	i	ne		68	i	67	i
Thomas Jefferson U.	348	0		0		0		143		0		0		0		59	
Seattle U.	349	392		336		283		140		319		185		72		10	
Lipscomb U.	350	ne		ne		ne		139	i	ne		ne		ne		95	i
Alcorn State U.	351	656		496		343		133		620		496		330		126	

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total								Federally financed							
		2017		2018		2019		2020		2017		2018		2019		2020	
California State U., East Bay	352	ne		ne		ne		132		ne		ne		ne		41	
U. Maryland, Eastern Shore	353	30		43		40		128		0		0		0		125	
SUNY, Oswego	354	215		300		231		125		28		50		81		13	
U. Maryland Center for Environmental Science	355	393		160		90		122		105		63		89		42	
Bowling Green State U.	356	20		10		60		121		20		0		0		0	
Central Connecticut State U.	357	130		ne		119		120		112		ne		87		94	
U. Detroit Mercy	358	73		103		227		119		0		4		59		75	
CUNY, Brooklyn C.	359	0		0		116	i	118		0		0		0	i	0	
Fairfield U.	360	267		375		60		117		31		22		0		0	
West Virginia State U.	361	188		328		34		109		132		273		34		31	
C. New Jersey	362	283		155		ne		105		222		114		ne		8	
Calvin U.	363	95		159		111		104	i	6		47		21		20	i
U. Wisconsin-River Falls	364	0		46		ne		103		0		5		ne		65	
Chapman U.	365	0		0		0		102		0		0		0		43	
Texas Southern U.	366	89		98		130		93		82		98		130		82	
U. of the Pacific	367	195		165		68		89		145		163		68		89	
Fort Valley State U.	368	0		0		0		84		0		0		0		84	
Trinity U.	369	108		108		103		80		7		0		0		0	
Western Illinois U.	370	639		711		409		79		444		530		321		71	
Merrimack C.	371	ne		207		ne		78		ne		207		ne		78	
Suffolk U.	372	0	i	ne		ne		76		0	i	ne		ne		76	
Pennsylvania State U., Harrisburg	373	278		223		312		74		174		132		15		44	
U. of the Incarnate Word	374	ne		0		47		72		ne		0		0		0	
St. Cloud State U.	375	101		183		121		71		0		0		0		0	
Texas A&M International U.	375	166		91		30		71		0		0		3		28	
C. Charleston	377	0		0		0		67		0		0		0		67	
East Tennessee State U.	378	0		0	i	2	i	65	i	0		0		2		52	
Xavier U. Louisiana	378	152		241		376		65		152		241		376		65	
Central Washington U.	380	6		13		70		61		0		0		4		34	
U. Wisconsin-Stevens Point	381	38	i	46	i	52	i	60		27	i	34	i	40	i	47	

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Washington, Tacoma	382	0	0	0	59	0	0	0	59
Eastern Kentucky U.	383	0	0	0	58	0	0	0	52
Trinity C., Hartford	384	62	86	86	49	3	19	19	13
Texas A&M U.-Commerce	385	3	5	28	48	0	0	0	0
Texas Christian U.	386	199	175	73	46	94	121	0	8
Elon U.	387	82	83	87	45	71	64	68	25
Andrews U.	388	ne	ne	47	41	ne	ne	41	37
U. Houston-Downtown	389	2	7	42	36	0	0	0	28
Citadel Military C. South Carolina	390	ne	ne	ne	34	ne	ne	ne	13
Azusa Pacific U.	391	179	38	50	31	0	0	0	0
CUNY, Graduate Center	392	0	0	0	30	0	0	0	30
Roger Williams U.	392	103	94	36	30	0	0	0	0
U. Alaska, Southeast	392	0	38	0	30	0	38	0	30
U. Southern Maine	395	113	3	23	27	20	0	0	0
Midwestern State U.	396	ne	ne	ne	25	ne	ne	ne	0
Weber State U.	397	ne	ne	ne	22	ne	ne	ne	22
Sam Houston State U.	398	0	29	21	20	0	0	0	0
Montclair State U.	399	0	0	0	14	0	0	0	0
Hawaii Pacific U.	400	0	0	10	13	0	0	10	13
Jacksonville State U.	401	8 i	8	22	11	8 i	8	22	11
U. Wisconsin-Superior	402	ne	0	4	9	ne	0	4	9
Keene State C.	403	0	ne	8	8	0	ne	8	8
Stephen F. Austin State U.	404	4	14	15	6	4	14	15	5
U. San Francisco	404	0	0	0	6	0	0	0	0
Northwestern State U. Louisiana	406	2	0	0	5	0	0	0	0
Indiana State U.	407	3	2	1	4	0	0	0	0
Southeastern Louisiana U.	407	6	0	0	4	0	0	0	3
Albany State U.	409	0	3	16	3	0	3	16	3
U. Houston-Clear Lake	410	0	0	5	2	0	0	0	0
Doane U.	411	ne	0	0	1 i	ne	0	0	1 i
Sonoma State U.	411	ne	ne	ne	1	ne	ne	ne	0

TABLE 54

Total and federally financed higher education R&D expenditures in engineering, ranked by FY 2020 total: FYs 2017–20

(Dollars in thousands)

Institution	Rank	Total				Federally financed			
		2017	2018	2019	2020	2017	2018	2019	2020
U. Central Oklahoma	411	0	0	0	1 i	0	0	0	1 i
U. Nebraska, Kearney	411	0	0	0	1	0	0	0	0
U. North Carolina, Asheville	411	40	74	10	1	0	0	0	0
All other surveyed institutions	-	146,187	148,062	8,423	0	80,982	79,567	5,190	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $1,098,625 thousand imputed for total and $1,066,166 thousand reported for federally financed R&D expenditures in engineering in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	12,363,782	13,216,209	13,692,756	1,295,759	1,468,229	999,312	1,422,418	3,048,420	588,127	1,812,916	816,610	2,240,965
Johns Hopkins U.[a]	1	1,087,478 i	1,147,335 i	1,205,632 i	132,651 i	59,419 i	22,153 i	16,831 i	547,044 i	99,394 i	224,716 i	29,331 i	74,093 i
Georgia Institute of Technology	2	613,650	664,695	695,176	180,295	18,681	20,486	38,363	259,745	99,952	49,705	14,517	13,432
Massachusetts Institute of Technology	3	431,927	450,915	419,636	29,160	104,805	47,150	14,924	55,447	117	53,616	42,431	71,986
Pennsylvania State U., University Park and Hershey Medical Center	4	325,002	350,391	367,730	32,250	19,563	18,370	12,155	101,850	23,296	109,852	50,394	0
Texas A&M U., College Station and Health Science Center	5	300,956	321,373	357,559	31,963	20,933	20,730	98,444	29,379	8,381	42,100	14,068	91,561
SUNY, Polytechnic Institute	6	255,033	350,793	353,542	0	0	0	48	5	0	33	0	353,456
U. Michigan, Ann Arbor	7	299,072	291,887	283,329	14,793	21,413	14,152	20,833	81,952	4,631	43,824	11,432	70,299
Purdue U., West Lafayette	8	229,967	270,525	280,592	24,463	20,748	19,587	28,429	50,109	15,847	49,198	19,668	52,543
Virginia Polytechnic Institute and State U.	9	245,755	258,213	263,711	18,219	22,519	5,494	31,117	62,349	34,468	31,040	19,216	39,289
U. Texas, Austin	10	242,963	249,788	259,935	12,615	12,543	37,569	35,537	63,425	141	49,202	21,465	27,438
Utah State U.	11	140,407	202,345	226,616	204,547	1,087	0	11,050	4,692	0	3,853	0	1,387
U. California, Berkeley	12	200,668	200,122	209,293	0	228	7,665	33,921	129,736	89	24	0	37,630
U. Illinois, Urbana-Champaign	13	195,413	201,028	203,564	10,210	13,055	17,451	20,674	60,400	0	32,041	16,575	33,158
U. California, San Diego	14	150,596	172,919	182,495	0	53,586	0	0	83,383	0	14,973	0	30,553
Ohio State U.	15	183,646	177,518	175,109	406	5,461	12,621	7,144	28,085	6,521	71,587	22,487	20,797
North Carolina State U.	16	166,680	174,590	174,740	1,632	14,969	31,878	19,313	41,712	9,520	10,736	22,414	22,566
U. Colorado Boulder	17	171,965	152,391	160,423	97,881	10,069	10,701	12,731	12,491	0	11,878	1,190	3,482
Arizona State U.	18	142,175	152,395	155,015	0	12,067	6,998	26,738	52,719	3,092	11,303	6,100	35,998

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Maryland[b]	19	na	158,814	153,109	13,740	20,034	5,367	35,931	20,393	0	17,561	12,927	27,156
U. Dayton	20	139,036	157,016	153,082	13,746	0	9,840	490	8,499	28,274	7,667	68,755	15,811
U. Washington, Seattle	21	149,931	155,076	152,919	8,328	28,542	9,057	19,942	41,430	1,874	14,436	5,907	23,403
Wichita State U.	22	63,328	109,248	134,848	131,285	48	0	0	518	311	323	0	2,363
U. Wisconsin-Madison	23	118,576	126,587	133,600	0	15,701	12,549	13,952	16,300	4,798	12,790	11,362	46,148
Stanford U.	24	146,504	134,585	130,950	15,157	26,083	17,176	15,130	18,285	0	24,302	9,972	4,845
U. Tennessee, Knoxville[c]	25	128,675	116,528	128,542	20,649	2,629	6,273	12,133	21,008	34,275	0	13,830	17,745
Cornell U.	26	92,590	110,545	123,703	3,050	18,636	12,915	8,567	25,517	4,657	20,086	19,421	10,854
U. Minnesota, Twin Cities	27	124,637	120,976	120,929	12,046	25,028	24,803	13,513	19,080	2,281	18,088	6,090	0
U. Florida	28	93,580	107,598	119,066	9,587	23,017	5,453	2,316	28,069	1,949	7,119	15,764	25,792
SUNY, U. Buffalo	29	95,234	95,040	112,843	16,026	15,771	16,072	10,690	5,146	12,273	20,311	2,245	14,309
Iowa State U.	30	99,214	104,798	109,473	5,301	8,679	6,746	21,348	12,327	0	13,685	4,870	36,517
Carnegie Mellon U.	31	99,201	95,496	102,955	1,549	10,273	12,813	6,651	25,294	0	21,286	10,117	14,972
New York U.	32	85,767	99,711	100,207	0	107	1,874	1,394	15,280	0	2,888	0	78,664
U. California, Davis	33	89,128	92,277	97,951	0	22,983	2,488	44,957	12,137	0	10,049	0	5,337
Harvard U.	34	96,786	95,651	97,884	0	60,486	382	3,646	11,132	0	815	19,888	1,535
Duke U.	35	92,715	100,379	95,657	0	43,021	0	9,763	31,499	0	8,266	2,282	826
Vanderbilt U. and Vanderbilt U. Medical Center	36	87,250	94,340	94,674	0	16,001	13,064	17,127	34,296	0	11,033	0	3,153
U. California, Los Angeles	37	91,799	95,797	93,520	0	10,244	8,111	7,469	33,642	0	16,512	6,140	11,402
Rice U.	38	67,934	77,299	91,913	0	37,712	8,133	9,307	21,554	0	4,535	7,864	2,808
Northeastern U.	39	65,147	79,836	89,954	0	7,429	4,312	11,595	31,541	12,807	17,181	0	5,089
U. California, Santa Barbara	40	77,535	67,395	87,681	0	15,226	9,585	2,527	41,250	0	7,700	10,902	491
Boston U.	41	83,013	78,154	85,651	1,746	35,868	188	0	22,851	2,635	10,916	1,020	10,427
U. Notre Dame	42	77,243	89,702	84,478	31,277	0	14,730	14,901	22,234	0	0	52	1,284

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Woods Hole Oceanographic Institution	43	61,221	83,974	84,333	0	0	0	0	0	0	0	0	84,333
Michigan State U.	44	77,165	79,638	82,690	0	22,392	14,650	7,482	18,763	0	12,106	0	7,297
U. Pennsylvania	45	67,574	78,444	82,299	0	20,457	9,194	0	16,788	0	22,352	0	13,508
New Jersey Institute of Technology	46	69,735	78,455	82,047	0	12,232	7,274	20,610	3,859	0	2,274	0	35,798
U. Arizona	47	70,100	75,555	79,463	1,601	8,552	5,811	2,914	39,690	4,178	5,097	7,902	3,718
U. Southern California	48	72,961	76,180	78,005	1,523	8,416	3,205	7,048	42,612	2,425	6,665	0	6,111
Northwestern U.	49	81,662	80,413	77,150	0	14,678	14,434	5,619	7,501	3,948	6,525	15,415	9,030
Clemson U.	50	73,506	76,739	76,971	0	12,996	5,904	14,483	9,687	2,637	14,581	11,759	4,924
U. Delaware	51	52,932	66,447	74,258	0	5,239	41,292	8,565	11,012	0	6,898	0	1,252
Columbia U. in the City of New York	52	72,301	72,596	72,758	2,088	19,807	6,151	2,143	4,606	821	5,696	0	31,446
U. Virginia, Charlottesville	53	70,000	83,072	72,602	0	16,398	4,574	1,549	16,824	0	9,288	10,680	13,289
Auburn U., Auburn	54	56,233	59,742	70,593	3,723	1,206	7,466	9,482	9,695	4,338	19,199	522	14,962
Mississippi State U.	55	48,399	60,183	69,220	12,558	1,368	6,372	5,317	8,023	6,252	17,936	299	11,095
Princeton U.	56	67,450	65,000	67,014	2,799	6,731	5,921	5,014	17,156	2,810	7,421	11,788	7,374
U. Central Florida	57	62,734	62,258	62,071	14,549	882	0	7,022	11,432	5,284	8,784	4,929	9,189
U. California, Irvine	58	70,449	55,995	59,695	0	10,443	6,490	9,983	14,476	0	12,313	4,603	1,387
U. Texas, Arlington	59	48,513	54,450	59,395	4,444	5,453	0	11,785	6,625	12,438	4,451	0	14,199
U. Massachusetts, Amherst	60	54,219	49,745	58,804	0	1,111	21,952	14,209	10,658	0	8,915	0	1,959
Rensselaer Polytechnic Institute	61	57,190	59,831	57,923	0	5,241	9,362	4,797	12,815	498	16,872	4,393	3,945
U. Utah	62	42,053 i	55,478 i	57,608 i	0 i	10,656 i	9,364 i	4,901 i	13,230 i	0 i	12,796 i	3,945 i	2,716 i
Florida State U.	63	56,281	56,352	56,493	2,776	4,015	3,193	6,512	13,819	2,397	20,996	2,138	647
Rutgers, State U. New Jersey, New Brunswick	64	104,371	92,937	55,880	0	5,209	4,166	2,131	6,067	509	6,927	3,113	27,758
U. Houston	65	50,047	51,806	55,210	2,244	11,839	12,273	6,515	8,165	722	6,834	603	6,015

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Pittsburgh, Pittsburgh	66	44,995	46,075	53,586	0	14,129	10,975	3,983	8,768	2,291	9,752	0	3,688
U. Missouri, Columbia	67	44,864	48,028	53,343	587	3,107	674	5,955	6,429	680	2,617	85	33,209
U. Alabama, Birmingham	68	48,102	47,555	53,030	8,271	6,470	3,507	693	5,960	0	7,356	18,086	2,687
U. North Dakota	69	52,960	54,760	52,511	0	0	1,055	36,181	1,899	0	906	827	11,643
George Mason U.	70	15,785	36,101	52,423	0	6,016	0	5,129	20,341	18,591	1,705	389	252
California Institute of Technology	71	45,494	46,972	51,693	9,139	3,051	7,955	12,202	4,877	0	307	12	14,150
U. Nebraska, Lincoln	72	49,434	53,932	51,685	0	9,481	3,662	15,613	9,457	38	5,476	6,267	1,691
U. Alabama, Huntsville	73	34,105	40,733	51,198	30,622	254	1,031	3,390	5,450	3,602	5,612	465	772
Oregon State U.	74	49,271	49,587	50,900	0	2,773	1,832	11,468	13,571	3,645	7,683	519	9,409
U. Texas, Dallas	75	43,363	48,666	50,812	0	14,739	0	0	12,239	1,464	7,611	4,821	9,938
U. Iowa	76	50,848	50,377	48,433	0	588	1,529	21,652	3,616	757	1,946	0	18,345
U. Kentucky	77	47,821	50,743	46,976	1,169	1,756	3,512	8,775	2,510	206	3,462	4,557	21,029
U. Connecticut	78	39,907	44,044	46,751	0	3,677	6,131	14,913	8,364	0	5,456	6,583	1,627
Colorado School of Mines	79	35,504	44,195	46,694	369	1,627	5,512	7,318	476	0	7,364	15,810	8,218
Michigan Technological U.	80	45,745	47,435	45,263	0	2,350	2,325	3,777	8,273	0	20,255	3,936	4,347
U. Cincinnati	81	44,588	46,889	43,098	6,836	1,886	3,844	7,668	9,508	0	10,998	0	2,358
Texas Tech U.	82	40,249	44,057	42,856	0	0	8,952	9,653	10,124	2,090	5,229	0	6,808
Colorado State U., Fort Collins	83	38,919	42,609	42,839	0	814	2,513	15,082	8,951	213	13,995	0	1,271
U. South Carolina, Columbia	84	31,294	31,748	42,804	243	0	7,329	3,523	4,944	0	18,846	0	7,919
U. New Mexico	85	35,067	37,950	42,739	7,567	684	5,399	6,911	10,458	829	1,408	900	8,583
U. California, Santa Cruz	86	29,724	39,111	41,752	0	1,549	0	0	3,918	0	0	0	36,285
West Virginia U.	87	37,520	42,516	40,786	60	0	5,613	4,569	5,879	5,086	11,021	1,824	6,734
Louisiana State U., Baton Rouge	88	44,604	45,803	40,084	0	0	6,543	10,772	2,195	444	4,160	4,667	11,303

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Florida International U.	89	31,410	35,138	39,826	0	5,219	0	13,669	11,045	77	3,662	1,254	4,900
Washington State U.	90	43,674	39,578	39,533	15	4,061	5,290	7,608	7,580	64	7,150	4,580	3,185
Montana State U., Bozeman	91	25,643	36,521	38,833	0	5,056	1,169	6,597	2,987	16	5,113	0	17,895
Case Western Reserve U.	92	46,184	41,228	37,911	0	15,944	6,537	837	6,909	0	6,932	554	198
U. Arkansas, Fayetteville	93	36,132	34,590	37,758	0	8,320	4,314	4,737	11,510	3,315	3,489	0	2,073
Mercer U.	94	23,532	32,624	37,450	12,953	0	0	3	404	0	14,423	9,143	524
U. South Florida, Tampa	95	45,487	45,508	37,162	36	3,394	3,732	17,467	5,761	955	4,575	0	1,242
Yale U.	96	35,939	36,591	36,806	0	12,158	5,222	0	10,978	0	7,619	0	829
U. Maine	97	27,459	32,368	36,760	0	20	8,189	1,153	1,616	1,291	2,610	20,974	907
U. Oklahoma, Norman and Health Science Center	98	23,293	26,569	36,643	5,362	3,079	3,174	6,323	12,454	1,614	0	0	4,637
Missouri U. of Science and Technology	99	33,241	37,912	36,447	1,777	5	1,059	5,878	7,368	521	4,937	13,454	1,448
U. Massachusetts, Lowell	100	27,676	33,128	35,847	0	3,078	12,982	2,457	7,443	0	7,714	0	2,173
Oklahoma State U., Stillwater	101	37,003	32,947	33,983	10,485	0	6,802	4,854	3,434	1,706	115	1,389	5,198
Stevens Institute of Technology	102	22,396	25,832	33,103	47	1,590	1,353	492	2,248	0	1,862	40	25,471
U. Alabama, Tuscaloosa	103	24,667	31,845	33,019	1,324	49	2,592	9,222	9,242	0	5,397	4,342	851
SUNY, Binghamton U.	104	35,406	30,434	32,668	0	4,015	0	0	6,012	13,523	6,436	0	2,682
U. California, Riverside	105	29,206	29,020	31,937	0	2,336	5,855	10,158	7,790	0	3,694	845	1,259
U. Illinois, Chicago	106	25,079	28,226	31,496	0	12,534	1,754	3,922	4,262	0	8,580	376	68
Drexel U.	107	31,625	31,330	31,230	0	6,042	6,032	2,819	4,267	0	2,879	7,112	2,079

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Dartmouth C. and Dartmouth Hitchcock Medical Center	108	31,903	31,110	31,140	0	13,253	3,605	655	3,738	38	6,330	0	3,521
U. North Carolina, Chapel Hill	109	28,509	31,825	30,774	0	9,572	0	19,618	0	1,584	0	0	0
SUNY, Stony Brook U.	110	28,015	28,632	30,180	0	7,091	0	1,995	8,286	0	3,130	7,127	2,551
U.S. Air Force Academy	111	28,645	28,489	29,812	4,358	0	0	0	325	0	25,073	0	56
Virginia Commonwealth U.	112	20,262	26,072	29,811	0	5,114	13,136	0	1,947	0	4,327	0	5,287
Wright State U.	113	43,039	39,164	29,519	4,082	14,741	0	0	6,752	1,517	1,161	1	1,265
Kansas State U.	114	26,577	27,439	28,155	1,736	0	3,438	3,581	4,212	1,516	7,748	0	5,924
U. Louisiana, Lafayette	115	13,188	28,397	27,878	0	0	8,182	3,758	3,925	9	8,238	2,277	1,489
Tufts U.	116	27,130	31,630	26,662	294	13,766	3,193	3,875	2,842	0	2,382	0	310
Old Dominion U.	117	17,074	19,294	25,869	2,153	0	0	1,315	5,403	9,614	2,566	0	4,818
U. Hawaii, Manoa	118	21,367	17,089	25,423	0	864	0	6,815	9,159	0	2,197	0	6,388
U. Texas, El Paso	119	27,260	26,586	25,172	15	1,016	0	4,397	4,729	1,645	10,955	1,175	1,240
New Mexico State U.	120	23,067	25,892	25,030	5,666	1	1,761	3,995	2,956	154	1,600	145	8,752
U. Chicago	121	16,388	23,773	24,468	0	0	0	0	0	0	0	0	24,468
Syracuse U.	122	22,145	25,412	24,272	381	5,352	0	2,468	7,937	0	5,563	0	2,571
Lehigh U.	123	24,564	23,447	24,054	0	710	3,565	5,025	3,801	1,913	4,845	4,169	26
Brown U.	124	28,149	23,448	23,965	0	7,678	2,832	0	2,941	0	2,885	3,256	4,373
Air Force Institute of Technology	125	22,908	20,525	23,947	6,577	0	0	327	5,372	9,957	0	1,714	0
U. Nevada, Reno	126	19,373	23,568	23,939	388	1,847	2,251	9,204	1,493	0	2,127	2,854	3,775
Washington U., Saint Louis	127	24,238	23,090	23,821	0	8,668	5,890	712	4,844	0	0	2,952	755
Worcester Polytechnic Institute	128	20,617	21,029	23,758	97	3,980	3,044	732	2,236	0	10,747	2,252	670
U. New Hampshire	129	19,239	23,861	23,457	0	0	1,638	8,007	9,776	0	4,036	0	0
CUNY, City C.	130	28,252	28,337	23,140	0	4,878	2,278	9,672	2,967	0	3,172	0	173

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Naval Postgraduate School	131	19,675	22,498	22,933	6,710	493	0	178	3,481	141	2,334	487	9,109
U. Texas, San Antonio	132	17,781	19,928	22,922	0	3,887	0	4,856	3,701	584	3,591	0	6,303
George Washington U.	133	17,136	21,712	22,682	2,651	6,722	0	2,909	6,296	1,450	1,287	7	1,360
Rochester Institute of Technology	134	18,611	20,264	20,910	0	1,064	574	14	5,196	2,322	1,604	0	10,136
U. Wyoming	135	36,672	19,550	20,317	0	39	5,488	2,794	454	0	1,455	0	10,087
U. Kansas	136	17,481	20,869	19,830	896	5,398	3,005	3,125	4,759	0	782	18	1,847
U. North Carolina, Charlotte	137	11,933	16,000	19,781	0	0	0	6,228	3,486	48	4,943	0	5,076
U. Georgia	138	21,346	18,444	19,273	0	2,090	5,308	6,325	3,990	0	0	0	1,560
U. Louisville	139	17,321	16,302	18,105	2	4,476	781	1,956	4,368	1,605	1,140	0	3,777
U. Alaska, Fairbanks	140	14,027	14,922	17,843	616	0	49	6,410	8,186	0	96	417	2,069
U. Idaho	141	17,190	17,497	17,035	1,031	1,473	725	3,114	1,644	8	610	727	7,703
U. Puerto Rico, Mayaguez	142	13,704	16,446	16,903	0	6	5,510	3,205	2,882	735	1,205	1,841	1,519
Ohio U.	143	21,226 i	19,502	16,291	2,781	0	6,854	886	561	124	418	608	4,059
Cleveland State U.	144	15,184	17,278	16,225	0	10,598	1,184	651	1,041	89	2,478	0	184
U. Rochester	145	13,418	14,872	16,116	0	6,329	1,062	0	4,431	0	3,367	0	927
Brigham Young U., Provo	146	14,827	14,001	15,943	0	0	2,647	1,510	4,637	777	6,372	0	0
U. North Texas, Denton	147	13,114	15,773	15,205	0	970	0	0	1,484	0	1,337	10,184	1,230
U. California, Merced	148	12,912	13,852	15,191	0	1,316	0	6,763	888	0	5,126	0	1,098
Indiana U., Bloomington	149	7,928	11,265	14,294	0	2,928	0	0	0	11,366	0	0	0
North Dakota State U.	150	11,555	12,030	14,007	0	0	0	3,228	2,196	720	3,168	0	4,695
Boise State U.	151	11,907	11,688	13,956	128	2,855	97	864	3,047	728	139	3,741	2,357
U. Mississippi	152	5,462	8,821	13,661	850	281	657	692	1,628	764	912	52	7,825
U. Tulsa	153	14,054	13,213	13,182	0	0	760	0	714	0	2,632	0	9,076

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
New Mexico Institute of Mining and Technology	154	13,245	14,043	13,084	573	0	4,688	522	296	0	1,343	332	5,330
Oregon Health and Science U.	155	11,941	12,134	12,856	0	12,856	0	0	0	0	0	0	0
Wayne State U.	156	17,235	14,634	12,806	0	2,687	3,462	2,878	1,237	697	1,414	0	431
U. Nevada, Las Vegas	157	16,192	15,736	12,729	0	82	0	4,499	1,442	0	4,406	3	2,297
South Dakota School of Mines and Technology	158	13,111	11,226	12,677	0	0	4,817	1,211	663	24	522	2,256	3,184
Embry-Riddle Aeronautical U.	159	12,926	8,374	12,015	10,584	0	0	86	423	0	794	0	128
Illinois Institute of Technology	160	12,976	15,241	11,934	1,239	4,788	302	655	2,841	400	960	236	513
Rowan U.	161	5,541	8,447	11,784	0	2,160	2,647	4,058	938	0	193	0	1,788
Louisiana Tech U.	162	10,333	11,513	11,459	0	2,832	1,045	1,290	1,004	30	1,839	781	2,638
Emory U.	163	6,000	9,614	11,349	0	11,349	0	0	0	0	0	0	0
U. Akron	164	18,878	16,650	11,345	0	1,151	4,381	1,487	931	0	3,142	0	253
U. Vermont	165	7,712	7,864	11,209	1,894	0	0	3,559	3,164	0	2,197	0	395
U. Memphis	166	9,806	9,464	10,741	0	2,298	0	5,836	803	0	1,109	28	667
Florida Atlantic U.	167	12,099	11,450	10,574	98	0	50	2,788	73	0	0	0	7,565
North Carolina Agricultural and Technical State U.	168	13,123	11,766	10,393	0	745	21	1,377	1,945	1,128	2,768	0	2,409
Missouri State U.	169	2,200	3,234	10,257	0	0	0	0	0	0	0	10,257	0
Villanova U.	170	9,293	9,612	10,193	0	0	1,003	3,468	1,340	0	1,222	0	3,160
U. Rhode Island	171	7,910	10,632	10,182	0	319	2,052	1,369	1,228	0	1,808	0	3,406
Marquette U.	172	7,898	8,988	10,059	0	4,159	0	1,050	1,788	0	867	0	2,195
U. Toledo	173	10,410	11,256	10,023	0	581	2,226	711	480	0	3,928	0	2,097
Southern Methodist U.	174	6,835	9,207	9,798	0	0	0	1,465	5,889	0	1,722	0	722
U. Wisconsin-Milwaukee	175	10,024	9,915	9,683	0	182	0	1,808	3,095	312	3,012	742	532

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Clarkson U.	176	12,058	10,889	9,363	0	0	1,849	2,954	2,394	0	2,112	21	33
Temple U.	177	7,719	8,042	9,294	0	3,150	0	2,145	1,432	0	1,800	0	767
Medical C. Wisconsin	178	6,669	7,800	8,542	0	8,542	0	0	0	0	0	0	0
U. Missouri, Kansas City	179	4,385	7,089	8,351	0	0	0	660	7,400	0	291	0	0
U. Nebraska, central administration	180	2,800	1,687	8,340	0	3,748	0	176	138	339	556	292	3,091
Howard U.	181	9,112	8,401	8,336	360	0	466	1,419	3,298	0	1,179	0	1,614
U. Massachusetts, Dartmouth	182	7,404	7,764	7,944	0	1,214	0	2,267	2,796	0	1,667	0	0
San Diego State U.	183	8,534	8,197	7,934	630	277	0	2,471	1,842	0	2,249	0	465
California State U., Sacramento	184	7,196	7,507	7,744	0	0	0	7,583	14	0	147	0	0
Tennessee Technological U.	185	7,301	7,267	7,559	0	0	174	1,950	2,264	347	2,639	0	185
U.S. Naval Academy	186	7,823	7,482	7,376	497	0	0	0	1,315	0	2,097	0	3,467
Morgan State U.	187	3,002	3,990	7,228	193	0	0	2,006	3,216	240	0	0	1,573
Indiana U.-Purdue U., Indianapolis	188	6,034	6,730	7,179	0	2,062	0	27	1,575	0	3,192	0	323
U. Michigan, Dearborn	189	6,503	6,832	7,088	0	0	0	0	2,866	1,111	2,424	0	687
Texas A&M U.-Corpus Christi	190	7,089	7,193	7,064	5,018	37	8	238	136	66	326	0	1,235
Texas State U.	191	3,504	4,611	6,892	0	1	0	69	19	0	3	4,412	2,388
Tulane U.	192	7,435	8,416	6,881	0	3,827	3,015	0	0	0	0	0	39
Portland State U.	193	9,010	9,160	6,719	221	0	0	3,088	1,794	218	559	702	137
U. Maryland, Baltimore County	194	8,715	8,429	6,671	305	2,509	865	232	1,056	22	869	85	728
U. Colorado Denver and Anschutz Medical Campus	195	4,610	5,003	6,180	0	1,997	0	1,062	1,315	0	1,606	0	200
U. Southern Mississippi	196	1,214	3,371	5,999	0	0	0	0	0	0	0	0	5,999
Tuskegee U.	197	5,297	5,372	5,922	44	568	0	0	697	0	647	3,515	451

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
South Dakota State U.	198	5,391	5,516	5,490	0	0	0	769	885	0	319	0	3,517
Florida Institute of Technology	199	5,427	4,782	5,362	1,200	447	274	757	99	16	1,280	30	1,259
U.S. Military Academy	200	3,020	3,799	5,297	17	0	106	211	528	1,473	2,240	0	722
Prairie View A&M U.	201	3,835	5,121	5,222	0	350	73	295	3,046	0	442	48	968
Western Michigan U. and Homer Stryker M.D. School of Medicine	202	5,810	5,595	5,091	463	733	1,138	740	447	121	527	379	543
U. Miami	203	5,201	5,400	5,060	0	820	0	2,619	167	0	626	0	828
Idaho State U.	204	4,725	4,039	5,014	0	0	0	141	106	0	195	0	4,572
Northern Arizona U.	205	4,454	2,613	4,996	0	1,566	27	231	2,172	0	376	41	583
Florida A&M U.	206	2,844	4,477	4,796	0	0	1,523	1,641	199	366	399	0	668
California State U., Long Beach	207	5,150	4,223	4,733	59	712	357	1,127	877	0	913	0	688
California Polytechnic State U., San Luis Obispo	208	3,542	4,117	4,646	274	66	0	1,444	30	81	746	0	2,005
Baylor U.	209	4,494	3,720	4,515	117	283	64	0	2,127	0	1,924	0	0
U. Denver	210	3,992	4,010	4,461	0	2,108	0	242	1,152	0	0	959	0
Montana Technological U.	211	4,464	4,428	4,331	0	0	58	204	290	0	152	3,617	10
Humboldt State U.	212	4,118	5,232	4,261	0	41	0	1,135	2,603	209	0	3	270
U. Texas Rio Grande Valley	213	4,226	3,573	4,018	1	165	0	470	461	717	979	0	1,225
Miami U.	214	2,271	3,070	3,783	0	1,069	944	0	1,094	0	492	0	184
U. South Alabama	215	1,956	2,411	3,640	0	0	2,003	921	306	4	322	0	84
Catholic U. of America	216	1,973	2,587	3,518	0	1,034	0	314	1,212	0	958	0	0
Youngstown State U.	217	4,044	3,993	3,491	0	0	104	189	375	263	2,517	43	0
SUNY, U. Albany	218	1,941	3,087	3,319	0	0	0	0	2,280	0	0	0	1,039
U. Tennessee, Chattanooga	218	1,674	2,460	3,319	0	0	100	574	447	0	156	0	2,042

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

				2020									
Institution	Rank	2018	2019	All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
New School	220	1,797	2,828	3,205	0	7	1,167	404	60	18	1,531	0	18
California State U., Maritime Academy	221	2,924	2,959	3,202	0	0	81	0	0	65	91	0	2,965
Milwaukee School of Engineering	222	2,936	3,825	3,105	0	150	0	1,302	4	0	1,146	0	503
East Carolina U.	223	1,276	2,015	3,053	0	0	0	402	0	0	0	0	2,651
San Jose State U.	224	1,451	1,864	2,863	0	5	868	0	794	304	245	0	647
Kent State U.	225	1,857	2,330	2,743	521	506	534	0	341	40	65	0	736
Alfred U.	226	3,599	5,032	2,720	0	0	0	0	0	0	0	2,720	0
North Carolina Central U.	227	0	1,212	2,675	0	2,675	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	228	1,906	1,827	2,653	0	0	131	24	630	0	900	5	963
Saint Louis U.	229	1,346	2,344	2,621	852	1,085	0	488	0	0	193	0	3
Purdue U., Northwest	230	2,307	1,352	2,521	0	0	0	32	131	1,542	678	0	138
U. North Carolina, general administration	231	2,311	2,239	2,467	0	583	737	0	544	0	0	595	8
U. North Florida	232	2,832	2,392	2,433	0	0	0	930	96	34	1,018	0	355
California State U., San Marcos	233	344	797	2,408	0	0	0	0	0	0	0	0	2,408
Southern Illinois U., Carbondale	234	3,381	2,905	2,333	0	0	0	55	642	0	419	153	1,064
Delaware State U.	235	1,807	2,248	2,332 i	2,332 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
CUNY, Advanced Science Research Center	236	1,564	1,379	2,289	0	335	423	913	0	0	0	0	618
U. New Orleans	237	2,447	2,376	2,282	0	0	0	247	848	0	689	0	498
U. Minnesota, Duluth	238	2,570	2,399	2,186	0	0	181	953	168	451	0	0	433
Georgia Southern U.	239	1,110	1,257	1,929	0	0	0	580	231	202	713	0	203
California State Polytechnic U., Pomona	240	1,248	1,085	1,875	192	0	923	568	0	5	121	31	35

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Lamar U.	241	2,280	1,609	1,825	0	0	960	68	87	533	177	0	0
U. Oklahoma, Tulsa	242	1,432	1,549	1,816	0	39	0	0	1,777	0	0	0	0
California State U., Fresno	243	1,520	1,492	1,748	0	0	0	854	631	53	124	0	86
Pittsburg State U.	244	1,978	1,990	1,659	12	94	1,553	0	0	0	0	0	0
U. Arkansas, Little Rock	245	1,921	2,116	1,627	1,347	1	33	0	0	0	187	0	59
Alabama A&M U.	246	3,122 i	2,354 i	1,603 i	0 i	0 i	0 i	429 i	745 i	0 i	429 i	0 i	0 i
California State U., San Bernardino	247	1,133	2,434	1,598	0	0	0	1,598	0	0	0	0	0
Bucknell U.	248	1,733	1,632	1,550 i	0 i	92 i	311 i	304 i	91 i	0 i	333 i	0 i	419 i
Minnesota State U., Mankato	249	1,204	1,472	1,486	0	0	0	0	564	0	294	0	628
Tennessee State U.	250	1,467	1,207	1,480	0	0	0	78	822	0	578	0	2
Kennesaw State U.	251	549	2,044	1,478	0	0	0	96	269	135	588	0	390
Jackson State U.	252	3,385	3,354	1,468	0	0	0	1,208	227	0	0	0	33
Northern Illinois U.	253	1,072	1,418	1,467	0	0	0	0	3	1,107	253	0	104
California State U., Bakersfield	254	1,271	2,050	1,449	0	0	0	0	218	0	0	0	1,231
Southern Illinois U., Edwardsville	255	2,666	2,348	1,424	0	269	0	761	97	108	186	0	3
Southern U. and A&M C., Baton Rouge	255	1,523	1,905	1,424	0	0	0	7	86	0	1,331	0	0
U. of the District of Columbia	257	721	708	1,388	0	0	0	554	0	0	515	0	319
U. South Dakota	258	3,198	3,243	1,385	0	1,385	0	0	0	0	0	0	0
U. Colorado Colorado Springs	259	763	694	1,367	0	0	0	0	705	0	487	0	175
U. South Carolina, Aiken	260	1,490	1,520	1,331	0	0	0	0	0	0	0	0	1,331
San Francisco State U.	261	1,492	1,284	1,330 i	0 i	100 i	0 i	394 i	515 i	0 i	321 i	0 i	0 i
Norfolk State U.	262	1,501	1,940	1,312	0	0	0	0	32	0	0	0	1,280

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
West Texas A&M U.	263	1,058	1,178	1,277	0	0	404	229	1	83	0	0	560
Morehead State U.	264	1,592	806	1,271	824	414	0	0	33	0	0	0	0
U. San Diego	265	898	776	1,252	0	0	0	0	0	0	67	0	1,185
Pennsylvania State U., Behrend	266	1,112	1,508	1,232	0	238	0	119	238	162	237	238	0
U. Massachusetts, Boston	267	1,220	1,255	1,206	0	0	0	0	937	0	0	0	269
U. Nebraska, Omaha	268	515	993	1,195	539	147	1	482	26	0	0	0	0
U. Texas Medical Branch	269	2,528	1,596	1,192	0	1,192	0	0	0	0	0	0	0
Marshall U.	270	1,011	1,158	1,137	0	4	0	870	0	0	26	181	56
CUNY, system office	271	2,245	1,001	1,132	0	0	0	0	0	0	0	0	1,132
California State U., Chico	272	305	567	1,120	0	0	0	472	357	0	291	0	0
California State U., Northridge	273	757	714	1,115	0	145	0	24	168	0	526	104	148
U. Alaska, Anchorage	274	2,196	1,393	1,101	0	0	58	241	71	0	128	0	603
Virginia State U.	275	951	793	1,058	847	0	0	0	0	118	0	0	93
Kettering U.	276	1,516	1,354	1,046	0	0	113	0	365	8	544	0	16
Oakland U.	277	3,709	3,836	1,041	0	0	0	0	0	308	733	0	0
U. Hartford	278	440	1,300	1,002	0	0	0	0	0	0	997	0	5
Western Washington U.	279	1,489	832	989	0	0	0	0	0	0	0	0	989
U. of St. Thomas (MN)	280	617	407	976	0	0	0	5	36	0	102	0	833
Smith C.	281	563	553	952	3	422	0	394	71	0	24	0	38
Santa Clara U.	282	535	876	948	0	139	0	33	5	0	771	0	0
California State U., Los Angeles	283	762	879 i	922	0	0	0	377	427	0	118	0	0
SUNY, C. of Environmental Science and Forestry	284	1,245	1,339	912	0	447	192	273	0	0	0	0	0

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020 All engineering	2020 Aerospace, aeronautical, and astronautical engineering	2020 Bioengineering and biomedical engineering	2020 Chemical engineering	2020 Civil engineering	2020 Electrical, electronic, and communications engineering	2020 Industrial and manufacturing engineering	2020 Mechanical engineering	2020 Metallurgical and materials engineering	2020 Engineering nec
U. of the Virgin Islands	285	87	61	902	848	0	0	0	44	0	0	0	10
U. Ana G. Mendez, Gurabo	286	501	2,324	884	0	0	0	62	175	66	131	0	450
Hampton U.	287	1,296	1,049	866	10	0	35	0	821	0	0	0	0
Wake Forest U.	288	49	385	859	0	0	0	0	0	0	0	0	859
Liberty U.	289	ne	311	838	0	0	0	0	0	0	419	419	0
Lawrence Technological U.	290	996	882	806	0	2	0	582	104	0	105	0	13
Central Michigan U.	291	657	559	736	646	0	5	0	84	0	0	1	0
Manhattan C.	292	ne	809	716	0	0	216	493	0	0	7	0	0
Florida Polytechnic U.	293	ne	1,739	689	0	0	0	0	112	0	273	244	60
Western Kentucky U.	293	783	597	689	0	0	79	83	99	0	354	0	74
South Carolina State U.	295	239 i	662	687 i	0 i	0 i	218 i	0 i	0 i	0 i	0 i	0 i	469 i
Oregon Institute of Technology	296	2,760 i	798 i	679 i	0 i	0 i	0 i	138 i	150 i	147 i	39 i	0 i	205 i
U. Tennessee, Health Science Center	297	598	610	648	0	648	0	0	0	0	0	0	0
U. North Carolina, Wilmington	298	1,659	1,226	640	266	0	0	22	115	237	0	0	0
Savannah State U.	299	429	526	639	0	242	293	0	0	0	0	0	104
Wellesley C.	300	0	0	633	633	0	0	0	0	0	0	0	0
Harvey Mudd C.	301	596	884	628	6 i	21 i	22 i	129 i	83 i	3 i	235 i	13 i	116 i
Bradley U.	302	885	945	617	0	0	0	224	17	9	137	0	230
California State U., Fullerton	303	563	609	616	0	0	0	82	111	0	119	0	304
Christopher Newport U.	304	536	575	566	566	0	0	0	0	0	0	0	0
Alabama State U.	305	0	0	533	0	0	0	0	533	0	0	0	0
U. New Haven	305	906	1,013	533	11	68	10	132	3	264	45	0	0
Pace U.	307	735	435	516	0	0	0	0	0	0	516	0	0
Fort Lewis C.	308	ne	760	505	28	13	0	0	55	0	0	0	409

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Franklin W. Olin C. of Engineering	309	789	534	491	28	0	0	0	154	0	189	0	120
New York Institute of Technology	310	698	1,045	458	0	0	0	0	354	0	104	0	0
Purdue U., Fort Wayne	311	533	221	443	0	0	0	143	92	0	141	0	67
Eastern Michigan U.	312	156	304	402	0	0	37	211	62	27	22	0	43
U. Ana G. Mendez, Carolina	313	0	ne	387	0	0	0	0	0	0	0	0	387
U. Michigan, Flint	314	140	152	376	0	0	0	0	0	0	0	0	376
Duquesne U.	315	588	525	374	0	374	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	316	490	553	371	0	0	0	217	5	0	149	0	0
Western Carolina U.	316	136	365	371	0	0	0	62	0	0	0	0	309
CUNY, New York City C. of Technology	318	601	478	367	0	0	0	85	0	282	0	0	0
Swarthmore C.	318	377	314	367	0	0	0	5	116	0	246	0	0
Johnson C. Smith U.	320	0	0	364	0	0	0	349	0	0	0	0	15
U. Texas, Tyler	321	405	394	344	0	0	0	121	90	0	133	0	0
U. Puerto Rico, Rio Piedras	322	326	37	341	0	341	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	323	242 i	353 i	338 i	0 i	0 i	0 i	0 i	134 i	0 i	81 i	0 i	123 i
Keck Graduate Institute	324	293 i	326 i	336 i	0 i	336 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Wisconsin-Oshkosh	325	275 i	300 i	312 i	0 i	0 i	0 i	0 i	200 i	0 i	112 i	0 i	0 i
James Madison U.	326	105	313	305	0	5	0	125	0	47	0	0	128
Hofstra U.	327	717	521	299	0	0	0	10	0	0	0	0	289
CUNY, C. Staten Island	328	1 i	1	294	0	0	133	34	0	0	0	0	127
U. West Florida	329	33	21	278	0	0	0	0	0	0	267	0	11
Saginaw Valley State U.	330	242	239	277	0	0	0	0	5	0	26	246	0

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Oklahoma State U., Center for Health Sciences	331	0	309	258	0	180	78	0	0	0	0	0	0
Lafayette C.	332	183	184	251	0	12	101	93	5	0	20	0	20
Florida Gulf Coast U.	333	270	59	250	0	39	0	47	0	0	0	0	164
Benedict C.	334	364	252	248	0	0	0	0	248	0	0	0	0
Grand Valley State U.	335	40	400	236	0	216	0	0	3	0	14	0	3
U. Texas of the Permian Basin	336	50	ne	217	0	0	0	0	0	0	0	0	217
Colorado State U., Pueblo	337	ne	178	210	0	0	0	0	0	0	0	0	210
Union C., Schenectady	338	119	118	204	0	0	0	0	55	0	148	0	1
Middle Tennessee State U.	339	540	59	182	1	0	0	86	95	0	0	0	0
Hope C.	340	55	128	175	0	0	0	0	0	0	175	0	0
Claflin U.	341	56	145	170	1	43	0	0	4	0	0	122	0
Biola U.	342	153 i	162 i	167 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	167 i
Central State U.	343	100	340	166	0	0	0	154	0	0	0	0	12
Loyola Marymount U.	344	553	160	165	0	0	0	7	4	0	154	0	0
Clark Atlanta U.	345	347	214	158	0	0	0	0	0	0	0	0	158
Tarleton State U.	346	0	61	156	0	0	0	0	0	0	142	0	14
U. Wisconsin-Platteville	347	ne	145 i	145 i	0 i	0 i	0 i	12 i	28 i	10 i	52 i	3 i	40 i
Thomas Jefferson U.	348	0	0	143	0	0	0	0	0	0	0	0	143
Seattle U.	349	336	283	140	0	0	0	12	66	0	42	0	20
Lipscomb U.	350	ne	ne	139 i	0 i	0 i	0 i	0 i	139 i	0 i	0 i	0 i	0 i
Alcorn State U.	351	496	343	133	0	0	0	0	0	0	59	74	0
California State U., East Bay	352	ne	ne	132	0	0	0	0	77	14	41	0	0
U. Maryland, Eastern Shore	353	43	40	128	49	76	3	0	0	0	0	0	0
SUNY, Oswego	354	300	231	125	0	0	0	0	114	0	0	0	11

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Maryland Center for Environmental Science	355	160	90	122	0	0	0	122	0	0	0	0	0
Bowling Green State U.	356	10	60	121	0	0	0	37	0	0	0	0	84
Central Connecticut State U.	357	ne	119	120	88	0	3	8	0	0	15	0	6
U. Detroit Mercy	358	103	227	119	0	0	0	0	83	0	26	0	10
CUNY, Brooklyn C.	359	0	116 i	118	0	0	0	0	0	118	0	0	0
Fairfield U.	360	375	60	117	0	5	0	0	0	0	1	0	111
West Virginia State U.	361	328	34	109	0	109	0	0	0	0	0	0	0
C. New Jersey	362	155	ne	105	0	4	0	54	6	0	38	0	3
Calvin U.	363	159	111	104 i	0 i	22 i	0 i	0 i	20 i	0 i	0 i	0 i	62 i
U. Wisconsin-River Falls	364	46	ne	103	0	0	0	0	0	0	0	0	103
Chapman U.	365	0	0	102	0	0	0	0	0	0	0	0	102
Texas Southern U.	366	98	130	93	0	0	0	0	0	0	0	0	93
U. of the Pacific	367	165	68	89	0	26	0	0	0	0	63	0	0
Fort Valley State U.	368	0	0	84	0	0	0	84	0	0	0	0	0
Trinity U.	369	108	103	80	0	80	0	0	0	0	0	0	0
Western Illinois U.	370	711	409	79	0	0	0	0	0	0	0	79	0
Merrimack C.	371	207	ne	78	62	0	0	16	0	0	0	0	0
Suffolk U.	372	ne	ne	76	76	0	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	373	223	312	74	0	1	0	20	9	0	44	0	0
U. of the Incarnate Word	374	0	47	72	0	0	0	0	0	0	0	0	72
St. Cloud State U.	375	183	121	71	0	0	0	0	43	0	14	0	14
Texas A&M International U.	375	91	30	71	0	0	0	0	0	0	0	0	71
C. Charleston	377	0	0	67	0	0	67	0	0	0	0	0	0
East Tennessee State U.	378	0 i	2 i	65 i	0 i	0 i	0 i	63 i	0 i	2 i	0 i	0 i	0 i

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Xavier U. Louisiana	378	241	376	65	0	0	0	0	0	0	0	0	65
Central Washington U.	380	13	70	61	0	0	0	0	0	61	0	0	0
U. Wisconsin-Stevens Point	381	46 i	52 i	60	0	0	52	8	0	0	0	0	0
U. Washington, Tacoma	382	0	0	59	0	34	0	0	0	0	25	0	0
Eastern Kentucky U.	383	0	0	58	0	0	0	0	0	0	0	0	58
Trinity C., Hartford	384	86	86	49	0	0	0	0	0	0	0	0	49
Texas A&M U.-Commerce	385	5	28	48	0	0	0	0	0	2	0	0	46
Texas Christian U.	386	175	73	46	8	0	0	0	0	38	0	0	0
Elon U.	387	83	87	45	0	22	0	0	0	0	0	0	23
Andrews U.	388	ne	47	41	0	0	0	0	0	0	0	0	41
U. Houston-Downtown	389	7	42	36	0	28	0	8	0	0	0	0	0
Citadel Military C. South Carolina	390	ne	ne	34	0	0	0	33	1	0	0	0	0
Azusa Pacific U.	391	38	50	31	0	0	0	0	0	0	31	0	0
CUNY, Graduate Center	392	0	0	30	0	0	0	0	0	30	0	0	0
Roger Williams U.	392	94	36	30	0	0	0	15	0	0	0	0	15
U. Alaska, Southeast	392	38	0	30	0	0	0	0	0	0	0	0	30
U. Southern Maine	395	3	23	27	0	0	0	0	0	27	0	0	0
Midwestern State U.	396	ne	ne	25	0	0	0	0	0	0	25	0	0
Weber State U.	397	ne	ne	22	0	0	0	0	22	0	0	0	0
Sam Houston State U.	398	29	21	20	0	0	0	0	0	0	0	0	20
Montclair State U.	399	0	0	14	0	0	0	0	0	0	0	0	14
Hawaii Pacific U.	400	0	10	13	13	0	0	0	0	0	0	0	0
Jacksonville State U.	401	8	22	11	0	0	0	0	0	0	0	0	11
U. Wisconsin-Superior	402	0	4	9	9	0	0	0	0	0	0	0	0
Keene State C.	403	ne	8	8	0	0	0	0	0	8	0	0	0

TABLE 55

Higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020																					
				All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
Stephen F. Austin State U.	404	14	15	6		0		0		0		0		0		0		0		0		6	
U. San Francisco	404	0	0	6		0		0		0		6		0		0		0		0		0	
Northwestern State U. Louisiana	406	0	0	5		0		0		0		0		0		5		0		0		0	
Indiana State U.	407	2	1	4		0		0		0		3		0		0		0		0		1	
Southeastern Louisiana U.	407	0	0	4		0		0		0		0		0		4		0		0		0	
Albany State U.	409	3	16	3		3		0		0		0		0		0		0		0		0	
U. Houston-Clear Lake	410	0	5	2		0		0		0		0		0		0		2		0		0	
Doane U.	411	0	0	1	i	0	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
Sonoma State U.	411	ne	ne	1		0		0		0		0		1		0		0		0		0	
U. Central Oklahoma	411	0	0	1	i	0	i	0	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i
U. Nebraska, Kearney	411	0	0	1		0		0		0		1		0		0		0		0		0	
U. North Carolina, Asheville	411	74	10	1		0		0		0		0		0		0		1		0		0	
All other surveyed institutions	-	148,062	8,423	0		0		0		0		0		0		0		0		0		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory (APL), with $1,098,625 thousand imputed for total R&D expenditures in engineering in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
All institutions	-	7,093,806	7,668,349	8,120,891	957,795	906,145	521,758	606,519	2,143,397	384,795	1,160,117	504,528	935,837
Johns Hopkins U.[a]	1	1,038,797	1,100,587	1,154,993	128,732	52,763	20,352	14,290	529,392	96,457	215,263	25,841	71,903
Georgia Institute of Technology	2	466,780	506,061	537,693	159,822	10,650	10,523	17,000	212,559	81,802	32,241	7,513	5,583
Pennsylvania State U., University Park and Hershey Medical Center	3	244,868	258,324	277,345	21,484	13,881	10,966	4,153	85,604	19,417	90,163	31,677	0
Massachusetts Institute of Technology	4	220,744	230,312	213,108	17,450	65,830	16,817	3,261	40,823	0	19,657	12,455	36,815
Utah State U.	5	124,950	183,794	206,998	198,031	416	0	2,525	2,804	0	2,149	0	1,073
U. Michigan, Ann Arbor	6	178,020	175,137	176,141	8,809	16,389	7,596	7,860	53,065	2,318	25,667	7,581	46,856
U. Texas, Austin	7	154,761	160,506	175,426	10,941	7,564	12,239	8,918	55,808	133	45,359	16,186	18,278
U. Dayton	8	127,079	146,841	145,508	13,203	0	9,546	427	7,789	26,708	6,591	65,536	15,708
U. Illinois, Urbana-Champaign	9	126,826	130,075	131,529	7,886	9,054	10,598	12,918	41,989	0	21,613	10,169	17,302
Purdue U., West Lafayette	10	105,657	111,292	122,469	15,923	7,096	9,187	6,314	25,830	4,266	20,401	10,377	23,075
U. Washington, Seattle	11	103,714	108,560	114,031	5,940	20,361	7,559	13,633	30,587	1,485	8,763	4,096	21,607
Virginia Polytechnic Institute and State U.	12	98,261	104,138	107,677	10,276	8,491	2,159	7,758	31,242	9,570	12,397	11,024	14,760
U. Colorado Boulder	13	86,829	92,099	105,890	58,211	8,401	8,370	9,616	8,637	0	9,132	1,190	2,333
U. California, San Diego	14	73,246	88,846	97,602	0	32,618	0	0	38,926	0	9,671	0	16,387

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Texas A&M U., College Station and Health Science Center	15	70,000	77,456	95,138	18,857	13,353	6,872	17,598	11,447	2,582	5,581	6,971	11,877
North Carolina State U.	16	84,304	91,264	94,592	1,234	6,192	11,831	6,411	30,600	2,516	7,871	11,681	16,256
U. Maryland[b]	17	na	86,168	86,398	8,344	13,043	3,492	10,536	18,660	0	9,164	8,356	14,803
Ohio State U.	18	84,724	85,547	85,038	333	3,341	7,098	2,205	16,985	3,093	30,078	13,404	8,501
Stanford U.	19	91,628	79,988	81,391	9,498	15,533	7,394	9,252	13,640	0	16,068	6,075	3,931
Arizona State U.	20	61,096	72,655	80,121	0	8,556	3,604	13,043	32,269	1,703	8,778	3,269	8,899
U. California, Berkeley	21	75,316	81,194	79,645	0	0	3,454	5,226	62,961	0	0	0	8,004
Woods Hole Oceanographic Institution	22	52,285	72,016	75,442	0	0	0	0	0	0	0	0	75,442
U. Minnesota, Twin Cities	23	67,776	71,695	74,167	9,867	17,405	13,212	5,289	12,855	1,239	9,549	4,751	0
Duke U.	24	64,601	72,560	73,605	0	32,718	0	3,510	27,931	0	6,340	2,280	826
U. Wisconsin-Madison	25	63,684	68,617	73,412	0	8,774	6,511	5,343	10,486	1,913	7,493	6,229	26,663
Cornell U.	26	55,763	63,696	69,870	1,135	12,540	7,361	5,564	12,324	2,596	13,630	11,698	3,022
Northeastern U.	27	48,634	61,116	66,614	0	4,942	3,026	9,758	27,520	6,951	11,659	0	2,758
U. Tennessee, Knoxville[c]	28	62,428	67,165	66,562	13,012	1,377	3,519	5,615	12,051	11,693	0	7,279	12,016
U. Florida	29	49,486	60,844	62,573	6,482	11,333	2,767	594	18,346	630	4,813	7,267	10,341
Iowa State U.	30	43,677	43,241	62,369	3,251	7,415	3,134	10,440	7,787	0	9,437	2,398	18,507
Columbia U. in the City of New York	31	61,834	59,672	62,020	2,088	17,183	5,265	1,996	4,078	612	3,843	0	26,955
SUNY, U. Buffalo	32	53,279	50,811	61,140	15,962	2,890	7,017	4,558	3,188	6,648	16,582	1,948	2,347
Carnegie Mellon U.	33	53,672	49,854	56,175	1,448	7,990	5,984	3,025	14,381	0	13,026	6,626	3,695

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Southern California	34	46,803	52,737	55,089	751	6,697	2,177	3,543	32,295	1,989	5,086	0	2,551
New Jersey Institute of Technology	35	41,611	53,994	53,702	0	3,837	3,915	13,097	1,907	0	402	0	30,544
U. Delaware	36	37,656	47,975	53,448	0	4,252	29,357	6,272	8,203	0	5,236	0	128
Boston U.	37	42,903	45,017	53,265	1,691	25,094	0	0	14,072	1,008	5,990	0	5,410
Harvard U.	38	51,742	45,835	52,801	0	29,314	44	952	6,657	0	815	15,019	0
Vanderbilt U. and Vanderbilt U. Medical Center	39	47,036	52,742	52,373	0	8,998	6,498	9,167	19,864	0	5,992	0	1,854
Northwestern U.	40	48,724	47,948	49,383	0	10,277	9,532	2,092	5,580	2,570	4,886	11,003	3,443
U. California, Los Angeles	41	50,048	52,488	49,163	0	4,368	3,772	3,390	19,380	0	8,742	4,427	5,084
Wichita State U.	42	13,677	22,954	46,023	45,025	31	0	0	339	295	241	0	92
George Mason U.	43	13,550	31,276	45,977	0	2,934	0	3,648	19,632	18,313	972	232	246
Mississippi State U.	44	24,187	33,935	45,520	8,970	560	4,827	3,588	3,028	2,984	13,764	111	7,688
U. Pennsylvania	45	36,750	39,422	44,542	0	12,695	6,114	0	11,461	0	14,260	0	12
U. Alabama, Birmingham	46	38,086	37,724	44,243	7,540	5,269	2,188	380	5,935	0	6,989	15,650	292
U. California, Santa Barbara	47	35,964	33,589	43,340	0	12,650	5,044	0	17,037	0	5,111	3,059	439
U. Alabama, Huntsville	48	24,961	31,957	42,499	28,528	0	499	3,141	3,001	2,730	3,504	409	687
Rice U.	49	34,520	37,781	42,085	0	13,414	3,119	5,642	14,462	0	1,503	3,859	86
U. Notre Dame	50	36,062	40,258	41,771	12,906	0	5,279	9,387	14,157	0	0	41	1
U. Virginia, Charlottesville	51	38,600	43,878	41,454	0	10,252	2,433	1,469	13,313	0	6,129	7,070	788
Princeton U.	52	42,147	41,480	40,829	1,417	3,115	2,437	2,623	9,512	1,999	5,079	10,877	3,770

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Rutgers, State U. New Jersey, New Brunswick	53	35,299	35,917	40,629	0	2,930	3,342	715	5,172	156	5,458	2,378	20,478
Clemson U.	54	33,781	39,395	38,214	0	8,152	3,815	6,673	4,515	1,403	4,131	7,154	2,371
Florida State U.	55	39,060	39,126	38,126	923	3,762	2,646	2,687	10,148	1,255	15,121	1,564	20
U. California, Davis	56	35,375	37,549	37,203	0	13,931	1,688	7,488	8,241	0	2,370	0	3,485
U. Pittsburgh, Pittsburgh	57	27,599	31,347	36,623	0	10,560	8,613	2,683	5,752	1,640	7,371	0	4
Oregon State U.	58	34,437	36,090	35,946	0	1,454	1,552	7,278	10,626	2,388	5,566	367	6,715
U. Central Florida	59	33,002	33,413	35,514	12,029	0	0	2,212	5,706	2,989	5,398	2,164	5,016
U. Utah	60	25,847	32,365	34,915	0	7,144	5,475	1,989	8,541	0	8,281	2,359	1,126
U. Arizona	61	30,716	35,880	34,459	950	3,635	3,190	1,295	17,115	2,075	2,441	2,041	1,717
U. New Mexico	62	27,521	30,449	34,153	6,579	510	4,163	5,151	8,036	276	1,112	900	7,426
Colorado School of Mines	63	23,277	31,066	33,432	354	1,415	4,583	5,714	261	0	5,818	10,842	4,445
Michigan State U.	64	27,900	29,787	31,431	0	3,290	5,224	3,325	10,662	0	5,754	0	3,176
Colorado State U., Fort Collins	65	29,104	31,135	30,860	0	811	2,075	10,901	7,702	99	8,697	0	575
U. Connecticut	66	22,920	26,390	30,450	0	2,706	2,670	9,176	6,043	0	3,651	5,712	492
U.S. Air Force Academy	67	26,453	28,489	29,812	4,358	0	0	0	325	0	25,073	0	56
Mercer U.	68	17,021	25,358	29,625	9,756	0	0	0	61	0	12,299	7,509	0
Rensselaer Polytechnic Institute	69	28,136	28,307	28,960	0	3,024	3,642	1,731	5,502	325	11,946	2,445	345
Auburn U., Auburn	70	21,497	25,694	28,796	1,623	151	2,102	3,281	2,615	1,682	9,742	197	7,403
Montana State U., Bozeman	71	18,950	25,349	28,753	0	2,195	743	4,691	2,347	0	3,437	0	15,340

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Massachusetts, Amherst	72	27,568	26,896	28,635	0	459	11,993	6,424	4,796	0	4,229	0	734
Case Western Reserve U.	73	33,187	29,335	27,954	0	12,718	4,951	641	3,502	0	6,092	0	50
U. California, Irvine	74	26,914	24,021	27,421	0	7,439	3,856	2,560	6,138	0	5,465	1,665	298
U. Kentucky	75	25,067	28,999	26,818	922	996	2,520	5,203	1,605	26	1,829	2,670	11,047
SUNY, Polytechnic Institute	76	39,897	36,816	26,696	0	0	0	0	0	0	33	0	26,663
California Institute of Technology	77	22,700	24,690	26,324	5,797	199	6,089	8,299	2,058	0	307	12	3,563
U. Houston	78	21,593	23,838	24,929	1,561	7,316	4,557	3,387	3,991	106	2,769	451	791
Yale U.	79	23,606	24,674	24,172	0	7,933	2,829	0	7,844	0	5,563	0	3
Stevens Institute of Technology	80	16,994	18,945	23,906	47	1,217	1,151	306	2,164	0	1,636	40	17,345
Wright State U.	81	28,136	25,868	23,496	0	14,119	0	0	6,365	1,517	547	0	948
Michigan Technological U.	82	19,638	21,801	23,332	0	1,372	747	1,358	6,387	0	11,994	1,387	87
U. California, Santa Cruz	83	18,845	25,568	22,817	0	27	0	0	3,139	0	0	0	19,651
U. Texas, Arlington	84	20,698	22,053	22,163	1,540	2,277	0	1,726	3,494	9,431	1,547	0	2,148
Florida International U.	85	17,220	19,899	21,747	0	3,563	0	7,921	6,664	0	2,154	674	771
U. Texas, Dallas	86	15,884	19,512	21,594	0	9,573	0	0	3,580	1,124	4,701	970	1,646
U. Nebraska, Lincoln	87	18,358	20,375	21,149	0	3,278	863	7,184	4,719	0	2,495	2,582	28

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Dartmouth C. and Dartmouth Hitchcock Medical Center	88	21,403	21,279	21,064	0	8,937	3,334	655	2,714	0	5,424	0	0
U. Iowa	89	22,494	21,473	20,687	0	55	251	9,274	2,262	379	1,097	0	7,369
Tufts U.	90	22,470	26,143	20,397	294	10,821	2,535	1,904	2,568	0	2,151	0	124
Washington State U.	91	19,156	18,943	20,360	0	989	2,614	3,522	4,578	51	4,096	2,472	2,038
U. North Dakota	92	30,506	28,684	20,330	0	0	318	16,300	205	0	64	143	3,300
U. Chicago	93	12,919	17,275	20,168	0	0	0	0	0	0	0	0	20,168
Naval Postgraduate School	94	17,019	20,124	20,145	6,453	401	0	178	3,219	141	1,938	333	7,482
Drexel U.	95	21,222	20,443	19,772	0	3,671	4,755	1,511	3,546	0	1,874	3,589	826
U. Alabama, Tuscaloosa	96	10,874	16,390	19,679	1,037	0	1,484	2,836	8,027	0	3,740	2,555	0
Washington U., Saint Louis	97	20,596	18,895	19,552	0	7,207	4,579	457	4,355	0	0	2,243	711
U. Arkansas, Fayetteville	98	15,886	14,659	18,074	0	2,628	2,283	1,542	8,031	1,779	1,566	0	245
U. South Florida, Tampa	99	24,747	22,743	18,073	36	2,670	1,573	8,442	2,607	250	2,468	0	27
U. Maine	100	10,014	13,614	18,038	0	0	2,969	137	366	0	677	13,790	99
U. North Carolina, Chapel Hill	101	19,456	19,251	17,813	0	6,408	0	10,235	0	1,170	0	0	0
U. Illinois, Chicago	102	13,558	14,707	17,537	0	6,476	988	2,325	2,557	0	5,191	0	0
U. Hawaii, Manoa	103	15,744	10,777	17,536	0	404	0	4,507	8,688	0	1,728	0	2,209
Brown U.	104	20,893	17,289	17,138	0	5,648	2,497	0	2,206	0	2,284	2,356	2,147
U. California, Riverside	105	16,293	16,217	17,034	0	1,578	4,171	3,094	4,679	0	2,888	624	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Missouri, Columbia	106	12,483	14,331	16,905	546	1,601	674	4,858	5,548	566	2,358	80	674
Missouri U. of Science and Technology	107	16,249	17,811	16,411	928	0	440	3,080	3,277	427	3,038	4,485	736
Lehigh U.	108	16,053	15,374	16,205	0	534	2,617	2,745	2,830	1,351	3,767	2,361	0
West Virginia U.	109	18,904	19,835	15,930	9	0	2,504	1,729	2,389	1,211	5,758	323	2,007
CUNY, City C.	110	17,753	16,998	15,704	0	4,317	1,221	5,415	2,126	0	2,552	0	73
New Mexico State U.	111	14,388	17,202	15,583	4,519	0	1,187	2,152	2,467	137	1,117	0	4,004
New York U.	112	13,790	14,986	15,445	0	0	1,451	694	6,980	0	2,324	0	3,996
SUNY, Stony Brook U.	113	15,013	15,637	15,329	0	3,643	0	447	3,567	0	2,281	4,955	436
Air Force Institute of Technology	114	16,075	14,015	15,238	3,389	0	0	124	3,477	7,685	0	563	0
George Washington U.	115	10,987	14,597	15,091	2,278	4,390	0	1,867	5,043	925	258	0	330
U. Oklahoma, Norman and Health Science Center	116	12,084	13,783	15,069	2,416	315	870	2,703	6,929	678	0	0	1,158
U. South Carolina, Columbia	117	15,596	16,076	15,010	0	0	2,871	2,073	4,170	0	5,896	0	0
U. Massachusetts, Lowell	118	11,828	13,443	14,870	0	2,020	4,553	792	2,838	0	3,318	0	1,349
Texas Tech U.	119	10,888	14,017	14,399	0	0	3,858	3,055	5,710	283	1,283	0	210
U. Kansas	120	10,149	14,177	13,829	831	4,919	749	1,307	4,101	0	660	0	1,262
Worcester Polytechnic Institute	121	10,668	11,735	13,084	0	2,400	1,422	233	1,145	0	7,347	0	537
U. Rochester	122	9,658	11,814	12,764	0	5,420	600	0	3,609	0	3,135	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Kansas State U.	123	9,819	12,503	12,530	398	0	1,950	694	2,172	370	5,190	0	1,756
U. Mississippi	124	3,137	4,752	12,422	803	0	477	545	1,479	759	778	0	7,581
U. Alaska, Fairbanks	125	7,642	9,090	11,998	503	0	0	2,938	6,407	0	25	159	1,966
Oklahoma State U., Stillwater	126	11,982	11,962	11,969	3,955	0	1,879	2,370	1,104	346	20	860	1,435
New Mexico Institute of Mining and Technology	127	12,044	13,004	11,869	573	0	3,717	484	282	0	1,298	324	5,191
U. Texas, El Paso	128	15,228	11,995	11,812	0	575	0	1,792	2,090	940	5,549	208	658
Old Dominion U.	129	7,601	8,179	11,802	1,519	0	0	650	3,414	4,920	1,299	0	0
Virginia Commonwealth U.	130	7,362	9,482	11,779	0	3,399	3,721	0	1,479	0	3,180	0	0
U. New Hampshire	131	9,291	12,286	11,466	0	0	1,103	6,675	624	0	3,064	0	0
U. Cincinnati	132	10,598	12,015	11,447	1,793	450	667	2,451	3,635	0	1,583	0	868
Brigham Young U., Provo	133	8,727	9,188	11,438	0	0	1,646	890	4,256	508	4,138	0	0
Cleveland State U.	134	8,971	11,036	11,055	0	9,157	699	144	235	0	820	0	0
Louisiana State U., Baton Rouge	135	11,227	11,587	10,268	0	0	1,402	1,885	1,045	189	1,810	0	3,937
Missouri State U.	136	2,200	3,176	10,096	0	0	0	0	0	0	0	10,096	0
U. Nevada, Reno	137	7,474	8,785	9,664	42	1,780	745	4,453	194	0	921	1,272	257
Oregon Health and Science U.	138	8,694	10,649	9,549	0	9,549	0	0	0	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Puerto Rico, Mayaguez	139	7,275	8,892	9,428	0	0	3,706	1,582	1,335	0	145	1,286	1,374
Illinois Institute of Technology	140	10,861	12,061	9,230	1,053	3,727	227	471	1,919	364	902	85	482
U. Louisville	141	6,949	8,248	9,077	2	1,585	623	422	2,882	1,128	565	0	1,870
South Dakota School of Mines and Technology	142	8,581	7,570	8,887	0	0	3,317	926	499	0	454	2,016	1,675
U. North Carolina, Charlotte	143	6,776	7,845	8,853	0	0	0	1,849	1,804	0	2,957	0	2,243
Emory U.	144	2,925	6,256	8,676	0	8,676	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	145	10,933	9,713	8,664	0	601	0	1,255	1,643	978	2,681	0	1,506
U. Idaho	146	7,521	8,525	8,376	819	464	513	2,016	725	0	316	515	3,008
U. Nebraska, central administration	147	2,800	1,687	8,340	0	3,748	0	176	138	339	556	292	3,091
Boise State U.	148	6,297	6,377	8,245	78	2,587	90	362	1,967	47	44	2,418	652
Rochester Institute of Technology	149	8,298	8,136	7,965	0	931	467	0	2,487	123	884	0	3,073
Embry-Riddle Aeronautical U.	150	10,728	6,291	7,943	7,413	0	0	33	0	0	402	0	95
Syracuse U.	151	9,100	7,616	7,696	381	2,029	0	521	3,273	0	1,492	0	0
Rowan U.	152	3,386	4,229	7,616	0	940	2,496	3,202	866	0	112	0	0
U. Georgia	153	4,964	6,292	7,208	0	430	1,865	2,693	2,220	0	0	0	0
U.S. Naval Academy	154	7,667	7,311	7,202	497	0	0	0	1,315	0	2,097	0	3,293
Florida Atlantic U.	155	6,467	7,007	6,955	90	0	7	2,068	67	0	0	0	4,723

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Rhode Island	156	5,282	7,329	6,939	0	295	651	569	991	0	1,447	0	2,986
U. Missouri, Kansas City	157	2,105	5,349	6,902	0	0	0	161	6,512	0	229	0	0
SUNY, Binghamton U.	158	6,470	6,356	6,526	0	1,308	0	0	1,483	2,431	1,304	0	0
Medical C. Wisconsin	159	4,864	6,029	6,389	0	6,389	0	0	0	0	0	0	0
Indiana U., Bloomington	160	3,649	4,864	6,314	0	0	0	0	0	6,314	0	0	0
Howard U.	161	7,260	6,046	6,241	0	0	217	978	3,134	0	1,179	0	733
U. Texas, San Antonio	162	5,947	5,949	5,961	0	1,037	0	1,160	746	265	821	0	1,932
Wayne State U.	163	6,264	6,640	5,947	0	1,276	2,574	887	350	243	345	0	272
U. Toledo	164	5,781	6,062	5,921	0	129	1,168	228	439	0	2,765	0	1,192
U. California, Merced	165	4,957	4,652	5,760	0	555	0	2,269	407	0	1,669	0	860
U.S. Military Academy	166	3,020	3,799	5,252	17	0	106	211	528	1,453	2,215	0	722
Southern Methodist U.	167	3,220	5,145	5,103	0	0	0	583	3,703	0	817	0	0
U. Akron	168	8,155	6,447	5,096	0	760	2,170	447	280	0	1,439	0	0
U. Nevada, Las Vegas	169	7,839	6,161	4,946	0	0	0	1,918	527	0	2,395	0	106
U. Colorado Denver and Anschutz Medical Campus	170	2,414	4,046	4,944	0	1,997	0	587	1,261	0	904	0	195
U. Vermont	171	5,683	5,190	4,853	1,278	0	0	1,203	1,440	0	932	0	0
Morgan State U.	172	2,366	3,376	4,847	0	0	0	1,777	1,497	0	0	0	1,573
Temple U.	173	4,142	3,830	4,758	0	1,614	0	925	895	0	1,195	0	129

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Maryland, Baltimore County	174	6,204	4,862	4,651	299	1,707	518	132	899	0	350	85	661
U. Wyoming	175	4,369	6,075	4,640	0	0	843	1,972	448	0	1,356	0	21
Clarkson U.	176	5,553	5,883	4,584	0	0	669	1,587	1,243	0	1,053	0	32
Louisiana Tech U.	177	3,948	4,263	4,582	0	1,568	361	162	195	0	674	244	1,378
Florida A&M U.	178	2,298	4,057	4,492	0	0	1,420	1,545	159	360	355	0	653
Ohio U.	179	5,512	5,252	4,454	1,868	0	1,330	364	44	0	108	143	597
Indiana U.-Purdue U., Indianapolis	180	3,054	3,298	4,369	0	1,592	0	0	551	0	2,187	0	39
Marquette U.	181	2,424	3,033	4,291	0	2,574	0	101	991	0	625	0	0
Tuskegee U.	182	5,197	4,097	4,177	44	6	0	0	487	0	401	3,239	0
Portland State U.	183	4,531	4,887	4,113	213	0	0	1,726	1,296	0	533	208	137
Tulane U.	184	3,965	4,170	4,050	0	2,890	1,160	0	0	0	0	0	0
San Diego State U.	185	4,026	3,801	3,851	414	275	0	1,251	512	0	1,399	0	0
U. North Texas, Denton	186	7,918	5,962	3,805	0	61	0	0	520	0	256	2,860	108
Northern Arizona U.	187	1,043	1,106	3,649	0	992	23	68	2,037	0	304	0	225
U. Louisiana, Lafayette	188	783	4,247	3,557	0	0	1,623	813	62	0	66	102	891
Florida Institute of Technology	189	2,306	2,391	3,305	709	207	144	176	60	0	784	0	1,225
Prairie View A&M U.	190	2,641	3,183	3,184	0	0	67	99	1,695	0	392	48	883
Montana Technological U.	191	3,239	3,606	3,161	0	0	0	147	188	0	72	2,754	0
California State U., Sacramento	192	3,282	3,443	3,150	0	0	0	3,150	0	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
North Dakota State U.	193	2,750	3,254	3,085	0	0	0	851	411	16	762	0	1,045
U. Wisconsin-Milwaukee	194	2,373	2,537	2,940	0	0	0	473	1,139	62	1,264	0	2
Catholic U. of America	195	1,610	1,961	2,925	0	981	0	147	876	0	921	0	0
Youngstown State U.	196	3,333	2,667	2,818	0	0	101	78	243	139	2,257	0	0
Texas A&M U.-Corpus Christi	197	2,121	2,020	2,800	1,450	0	0	188	96	0	77	0	989
Tennessee Technological U.	198	2,539	2,402	2,756	0	0	85	319	1,214	244	877	0	17
South Dakota State U.	199	3,283	2,925	2,674	0	0	0	517	588	0	203	0	1,366
U. South Alabama	200	1,098	1,467	2,624	0	0	1,448	591	243	0	283	0	59
California State U., Long Beach	201	3,008	2,109	2,533	41	675	196	713	68	0	727	0	113
U. Memphis	202	3,063	2,489	2,513	0	817	0	1,323	137	0	130	28	78
Idaho State U.	203	1,815	1,203	2,491	0	0	0	9	0	0	44	0	2,438
California State U., San Marcos	204	344	797	2,408	0	0	0	0	0	0	0	0	2,408
U. Tennessee, Chattanooga	205	589	1,216	2,277	0	0	0	436	393	0	0	0	1,448
U. Massachusetts, Dartmouth	206	2,751	2,696	2,170	0	147	0	806	782	0	435	0	0
U. Miami	207	2,658	2,532	2,128	0	750	0	386	108	0	327	0	557
U. Denver	208	1,558	1,879	2,109	0	547	0	242	901	0	0	419	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
CUNY, Advanced Science Research Center	209	1,274	1,289	1,968	0	332	159	859	0	0	0	0	618
North Carolina Central U.	210	0	789	1,929	0	1,929	0	0	0	0	0	0	0
Texas A&M U.-Kingsville	211	964	1,187	1,830	0	0	0	2	422	0	812	0	594
U. Southern Mississippi	212	1,214	3,286	1,823	0	0	0	0	0	0	0	0	1,823
U. Texas Rio Grande Valley	213	2,798	1,134	1,761	0	165	0	84	0	372	212	0	928
U. Michigan, Dearborn	214	844	1,129	1,681	0	0	0	0	862	33	782	0	4
Western Michigan U. and Homer Stryker M.D. School of Medicine	215	2,590	1,945	1,580	404	78	46	525	393	31	103	0	0
San Jose State U.	216	699	1,029	1,575	0	0	460	0	340	202	29	0	544
Saint Louis U.	217	486	1,176	1,549	772	405	0	372	0	0	0	0	0
U. of the District of Columbia	218	721	708	1,388	0	0	0	554	0	0	515	0	319
U. Tulsa	219	1,647	1,520	1,387	0	0	176	0	234	0	892	0	85
Villanova U.	220	1,535	1,543	1,375	0	0	315	335	560	0	165	0	0
Southern U. and A&M C., Baton Rouge	221	1,342	1,454	1,360	0	0	0	7	63	0	1,290	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020																							
				All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
California Polytechnic State U., San Luis Obispo	222	2,136	1,566	1,338		186		0		0		621		29		81		307		0		114	
U. South Carolina, Aiken	223	1,490	1,453	1,331		0		0		0		0		0		0		0		0		1,331	
Norfolk State U.	224	1,501	1,940	1,312		0		0		0		0		32		0		0		0		1,280	
Kent State U.	225	1,183	1,860	1,278		6		503		533		0		174		0		62		0		0	
Baylor U.	226	1,189	1,440	1,271		82		188		56		0		658		0		287		0		0	
Delaware State U.	227	1,500	1,218	1,269	i	1,269	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
Jackson State U.	228	2,806	2,908	1,262		0		0		0		1,039		190		0		0		0		33	
Morehead State U.	229	1,306	754	1,208		824		351		0		0		33		0		0		0		0	
California State U., Bakersfield	230	928	1,453	1,179		0		0		0		0		102		0		0		0		1,077	
Tennessee State U.	231	1,203	824	1,142		0		0		0		24		543		0		575		0		0	
California State Polytechnic U., Pomona	232	751	728	1,141		86		0		608		295		0		5		112		0		35	
Purdue U., Northwest	233	675	376	1,128		0		0		0		10		61		513		540		0		4	
Alabama A&M U.	234	2,236	i	1,581	i	1,078	i	0	i	0	i	0	i	233	i	554	i	0	i	291	i	0	i	0	i
U. Oklahoma, Tulsa	235	667	919	1,066		0		0		0		0		1,066		0		0		0		0	
SUNY, U. Albany	236	74	512	1,039		0		0		0		0		1,039		0		0		0		0	
U. Arkansas, Little Rock	237	1,060	1,224	950		818		0		14		0		0		0		118		0		0	
California State U., Northridge	238	700	604	926		0		145		0		24		111		0		518		83		45	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
Alfred U.	239	1,374	1,459	887	0	0	0	0	0	0	0	887	0
U. Colorado Colorado Springs	240	656	649	877	0	0	0	0	228	0	474	0	175
Hampton U.	241	1,296	1,049	866	10	0	35	0	821	0	0	0	0
U. Nebraska, Omaha	242	398	683	859	489	6	0	364	0	0	0	0	0
Lamar U.	243	1,012	442	838	0	0	632	22	27	16	141	0	0
U. of the Virgin Islands	244	87	61	834	790	0	0	0	44	0	0	0	0
California State U., Los Angeles	245	642	688	806	0	0	0	299	390	0	117	0	0
Texas State U.	246	1,066	623	746	0	1	0	0	0	0	0	123	622
Smith C.	247	477	463	725	0	320	0	370	0	0	16	0	19
South Carolina State U.	248	208 i	662	687 i	0 i	0 i	218 i	0 i	0 i	0 i	0 i	0 i	469 i
U. San Diego	249	756	633	686	0	0	0	0	0	0	58	0	628
Miami U.	250	281	361	667	0	0	187	0	454	0	26	0	0
CUNY, system office	251	1,419	912	662	0	0	0	0	0	0	0	0	662
U. Alaska, Anchorage	252	226	562	644	0	0	0	210	60	0	85	0	289
Savannah State U.	253	429	526	639	0	242	293	0	0	0	0	0	104
Wellesley C.	254	0	0	633	633	0	0	0	0	0	0	0	0
California State U., Maritime Academy	255	550	617	621	0	0	81	0	0	0	0	0	540
California State U., Chico	256	35	179	613	0	0	0	25	345	0	243	0	0
Milwaukee School of Engineering	256	631	695	613	0	148	0	0	4	0	55	0	406
U. Hartford	258	42	791	605	0	0	0	0	0	0	605	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020																							
				All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
Christopher Newport U.	259	536	575	566		566		0		0		0		0		0		0		0		0	
U. North Carolina, general administration	260	49	189	552		0		0		0		0		544		0		0		0		8	
U. Massachusetts, Boston	261	609	533	547		0		0		0		0		547		0		0		0		0	
California State U., Fullerton	262	352	288	534		0		0		0		50		104		0		76		0		304	
Alabama State U.	263	0	0	533		0		0		0		0		533		0		0		0		0	
California State U., Fresno	264	758	419	526		0		0		0		41		348		0		106		0		31	
Bucknell U.	265	561	533	512	i	0	i	76	i	63	i	74	i	56	i	0	i	130	i	0	i	113	i
West Texas A&M U.	266	534	477	500		0		0		44		2		0		54		0		0		400	
Fort Lewis C.	267	ne	702	477		28		13		0		0		55		0		0		0		381	
Western Washington U.	268	535	336	475		0		0		0		0		0		0		0		0		475	
Pace U.	269	395	404	464		0		0		0		0		0		0		464		0		0	
Liberty U.	270	ne	0	442		0		0		0		0		0		0		23		419		0	
U. South Dakota	271	663	1,280	440		0		440		0		0		0		0		0		0		0	
Marshall U.	272	271	502	434		0		3		0		287		0		0		11		133		0	
Santa Clara U.	273	177	215	393		0		15		0		0		5		0		373		0		0	
San Francisco State U.	274	486	371	387	i	0	i	99	i	0	i	68	i	220	i	0	i	0	i	0	i	0	i
New York Institute of Technology	275	422	697	372		0		0		0		0		268		0		104		0		0	
East Carolina U.	276	267	475	366		0		0		0		75		0		0		0		0		291	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Ana G. Mendez, Gurabo	277	0	575	365	0	0	0	0	0	0	0	0	365
Johnson C. Smith U.	278	0	0	364	0	0	0	349	0	0	0	0	15
CUNY, New York City C. of Technology	279	579	442	353	0	0	0	85	0	268	0	0	0
Pennsylvania State U., Behrend	280	277	408	337	0	75	0	37	75	0	75	75	0
U. North Carolina, Wilmington	281	531	484	335	0	0	0	0	98	237	0	0	0
U. Ana G. Mendez, Carolina	282	0	ne	314	0	0	0	0	0	0	0	0	314
U. North Florida	283	439	360	304	0	0	0	44	22	0	12	0	226
Georgia Southern U.	284	196	174	301	0	0	0	0	92	14	195	0	0
Western Carolina U.	285	122	269	291	0	0	0	46	0	0	0	0	245
Hofstra U.	286	717	506	288	0	0	0	0	0	0	0	0	288
U. Texas Medical Branch	287	1,093	411	276	0	276	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	288	117	37	270	0	270	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	289	425	111	255	28	0	0	0	154	0	53	0	20
U. New Orleans	290	392	344	250	0	0	0	0	0	0	147	0	103
CUNY, C. Staten Island	291	0 i	0	249	0	0	133	34	0	0	0	0	82
Northern Illinois U.	292	334	222	246	0	0	0	0	2	15	174	0	55

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																					
						All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
Minnesota State U., Mankato	293	80		174		244		0		0		0		0		0		0		95		0		149	
Southern Illinois U., Edwardsville	294	611		475		240		0		0		0		182		22		35		0		0		1	
U. Wisconsin-Oshkosh	294	207	i	230	i	240	i	0	i	0	i	0	i	0	i	158	i	0	i	82	i	0	i	0	i
U. New Haven	296	557		485		238		11		0		0		80		0		113		34		0		0	
Benedict C.	297	364		246		237		0		0		0		0		237		0		0		0		0	
Oakland U.	298	1,076		720		233		0		0		0		0		0		71		162		0		0	
Lawrence Technological U.	299	386		210		227		0		0		0		176		0		0		51		0		0	
Keck Graduate Institute	300	190	i	208	i	215	i	0	i	215	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
Bradley U.	301	180		236		214		0		0		0		135		10		0		49		0		20	
Virginia State U.	302	240		165		210		0		0		0		0		0		118		0		0		92	
Wake Forest U.	303	49		148		208		0		0		0		0		0		0		0		0		208	
Oregon Institute of Technology	304	158		272	i	203		0		0		0		91		0		86		0		0		26	
U. West Florida	305	0		0		196		0		0		0		0		0		0		185		0		11	
Purdue U., Fort Wayne	306	93		160		194		0		0		0		1		0		0		141		0		52	
James Madison U.	307	56		181		186		0		0		0		107		0		44		0		0		35	
Southern Illinois U., Carbondale	308	386		392		180		0		0		0		8		60		0		54		58		0	
U. Minnesota, Duluth	308	199		319		180		0		0		0		60		5		115		0		0		0	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																					
						All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
Harvey Mudd C.	310	340		440		175		6	i	7	i	14	i	58	i	16	i	0	i	31	i	13	i	30	i
Claflin U.	311	42		144		170		1		43		0		0		4		0		0		122		0	
Manhattan C.	311	ne		167		170		0		0		77		93		0		0		0		0		0	
Central State U.	313	100		340		166		0		0		0		154		0		0		0		0		12	
Florida Polytechnic U.	314	ne		283		159		0		0		0		0		4		0		41		114		0	
U. Wisconsin-Green Bay	314	95	i	147	i	159	i	0	i	0	i	0	i	0	i	79	i	0	i	41	i	0	i	39	i
SUNY, C. of Environmental Science and Forestry	316	249		259		158		0		110		48		0		0		0		0		0		0	
Humboldt State U.	317	4		16		153		0		0		0		153		0		0		0		0		0	
Duquesne U.	318	208		179		146		0		146		0		0		0		0		0		0		0	
Arkansas State U., Jonesboro	319	142		180		144		0		0		0		144		0		0		0		0		0	
Lafayette C.	320	112		107		139		0		0		57		81		0		0		1		0		0	
Hope C.	321	52		116		138		0		0		0		0		0		0		138		0		0	
Alcorn State U.	322	496		330		126		0		0		0		0		0		0		52		74		0	
U. Maryland, Eastern Shore	323	0		0		125		49		76		0		0		0		0		0		0		0	
New School	324	0		99		116		0		0		0		48		50		13		0		0		5	
Kettering U.	325	454		184		114		0		0		0		0		0		0		114		0		0	
Biola U.	326	103	i	109	i	113	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	113	i
Saginaw Valley State U.	327	136		124		105		0		0		0		0		0		0		0		105		0	
Eastern Michigan U.	328	0		9		102		0		0		0		102		0		0		0		0		0	
Lipscomb U.	329	ne		ne		95	i	0	i	0	i	0	i	0	i	95	i	0	i	0	i	0	i	0	i
Central Connecticut State U.	330	ne		87		94		80		0		0		0		0		0		14		0		0	

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. of the Pacific	331	163	68	89	0	26	0	0	0	0	63	0	0
Central Michigan U.	332	276	162	84	0	0	0	0	84	0	0	0	0
Fort Valley State U.	332	0	0	84	0	0	0	84	0	0	0	0	0
Texas Southern U.	334	98	130	82	0	0	0	0	0	0	0	0	82
U. Texas of the Permian Basin	334	50	ne	82	0	0	0	0	0	0	0	0	82
Union C., Schenectady	336	32	10	81	0	0	0	0	6	0	75	0	0
Merrimack C.	337	207	ne	78	62	0	0	16	0	0	0	0	0
Middle Tennessee State U.	338	100	3	76	0	0	0	0	76	0	0	0	0
Suffolk U.	338	ne	ne	76	76	0	0	0	0	0	0	0	0
U. Detroit Mercy	340	4	59	75	0	0	0	0	72	0	3	0	0
Kennesaw State U.	341	111	105	74	0	0	0	66	8	0	0	0	0
Western Illinois U.	342	530	321	71	0	0	0	0	0	0	0	71	0
Western Kentucky U.	343	93	2	68	0	0	68	0	0	0	0	0	0
C. Charleston	344	0	0	67	0	0	67	0	0	0	0	0	0
U. Wisconsin-Platteville	344	ne	68 i	67 i	0 i	0 i	0 i	4 i	3 i	1 i	46 i	1 i	12 i
U. Wisconsin-River Falls	346	5	ne	65	0	0	0	0	0	0	0	0	65
Xavier U. Louisiana	346	241	376	65	0	0	0	0	0	0	0	0	65
Thomas Jefferson U.	348	0	0	59	0	0	0	0	0	0	0	0	59

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020									
				All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
U. Washington, Tacoma	348	0	0	59	0	34	0	0	0	0	25	0	0
East Tennessee State U.	350	0	2	52	0	0	0	52	0	0	0	0	0
Eastern Kentucky U.	350	0	0	52	0	0	0	0	0	0	0	0	52
Pittsburg State U.	352	19	12	50	12	38	0	0	0	0	0	0	0
Colorado State U., Pueblo	353	ne	51	47	0	0	0	0	0	0	0	0	47
Florida Gulf Coast U.	353	270	56	47	0	0	0	47	0	0	0	0	0
U. Texas, Tyler	353	127	71	47	0	0	0	3	10	0	34	0	0
U. Wisconsin-Stevens Point	353	34 i	40 i	47	0	0	47	0	0	0	0	0	0
Oklahoma State U., Center for Health Sciences	357	0	54	46	0	46	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	358	132	15	44	0	1	0	12	5	0	26	0	0
Chapman U.	359	0	0	43	0	0	0	0	0	0	0	0	43
U. Maryland Center for Environmental Science	360	63	89	42	0	0	0	42	0	0	0	0	0
California State U., East Bay	361	ne	ne	41	0	0	0	0	0	0	41	0	0
Andrews U.	362	ne	41	37	0	0	0	0	0	0	0	0	37
Central Washington U.	363	0	4	34	0	0	0	0	0	34	0	0	0
West Virginia State U.	364	273	34	31	0	31	0	0	0	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

				2020									
Institution	Rank	2018	2019	All engineering	Aerospace, aeronautical, and astronautical engineering	Bioengineering and biomedical engineering	Chemical engineering	Civil engineering	Electrical, electronic, and communications engineering	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering	Engineering nec
CUNY, Graduate Center	365	0	0	30	0	0	0	0	0	30	0	0	0
U. Alaska, Southeast	365	38	0	30	0	0	0	0	0	0	0	0	30
Texas A&M International U.	367	0	3	28	0	0	0	0	0	0	0	0	28
U. Houston-Downtown	367	0	0	28	0	28	0	0	0	0	0	0	0
Elon U.	369	64	68	25	0	22	0	0	0	0	0	0	3
Weber State U.	370	ne	ne	22	0	0	0	0	22	0	0	0	0
Calvin U.	371	47	21	20 i	0 i	0 i	0 i	0 i	20 i	0 i	0 i	0 i	0 i
U. of St. Thomas (MN)	372	29	25	19	0	0	0	0	18	0	1	0	0
Citadel Military C. South Carolina	373	ne	ne	13	0	0	0	13	0	0	0	0	0
Hawaii Pacific U.	373	0	10	13	13	0	0	0	0	0	0	0	0
SUNY, Oswego	373	50	81	13	0	0	0	0	2	0	0	0	11
Trinity C., Hartford	373	19	19	13	0	0	0	0	0	0	0	0	13
Jacksonville State U.	377	8	22	11	0	0	0	0	0	0	0	0	11
Seattle U.	378	185	72	10	0	0	0	0	0	0	0	0	10
U. Wisconsin-Superior	379	0	4	9	9	0	0	0	0	0	0	0	0
C. New Jersey	380	114	ne	8	0	0	0	0	5	0	0	0	3
Keene State C.	380	ne	8	8	0	0	0	0	0	8	0	0	0
Texas Christian U.	380	121	0	8	8	0	0	0	0	0	0	0	0
Stephen F. Austin State U.	383	14	15	5	0	0	0	0	0	0	0	0	5
Albany State U.	384	3	16	3	3	0	0	0	0	0	0	0	0

TABLE 56

Federally financed higher education R&D expenditures in engineering subfields, ranked by all FY 2020 engineering R&D: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020																			
				All engineering		Aerospace, aeronautical, and astronautical engineering		Bioengineering and biomedical engineering		Chemical engineering		Civil engineering		Electrical, electronic, and communications engineering		Industrial and manufacturing engineering		Mechanical engineering		Metallurgical and materials engineering		Engineering nec	
Southeastern Louisiana U.	384	0	0	3		0		0		0		0		0		3		0		0		0	
Doane U.	386	0	0	1	i	0	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
U. Central Oklahoma	386	0	0	1	i	0	i	0	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i
All other surveyed institutions	-	80,089	5,289	0		0		0		0		0		0		0		0		0		0	

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

nec = not elsewhere classified.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,066,166 thousand in federally financed R&D expenditures in engineering in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
All institutions	-	4,641,376	4,864,950	5,035,615	878,721	191,813	1,603,978	563,007	267,565	307,145	171,605	1,051,781
U. Pennsylvania	1	137,640	137,448	146,396	89,756	6,079	16,188	9,065	12,632	0	2,918	9,758
Harvard U.	2	106,759	110,578	123,639	36,568	3,004	50,226	10,009	21,871	0	1,961	0
U. Michigan, Ann Arbor	3	107,516	104,485	100,931	13,243	1,821	12,071	25,098	4,437	7,954	3,825	32,482
U. Wisconsin-Madison	4	91,550	88,107	91,878	11,647	4,152	29,494	14,630	3,865	815	2,099	25,176
New York U.	5	85,597	89,471	89,103	7,050	0	27,628	14,449	21,952	9,578	1,069	7,377
U. Washington, Seattle	6	71,393	77,934	85,569	521	11,359	37,374	1,818	1,312	14,934	391	17,860
Florida State U.	7	37,175	71,549	80,379	12,108	2,447	33,404	10,933	4,063	9,082	5,912	2,430
Arizona State U.	8	58,326	67,049	78,430	20,895	5,797	29,988	7,714	4,490	6,217	3,329	0
U. Kansas	9	69,552	70,001	76,326	311	35	60,801	1,426	119	12,160	26	1,448
Georgia State U.	10	67,933	69,347	76,064	20,524	11,742	28,711	581	3,860	7,910	2,449	287
Syracuse U.	11	69,109	70,687	71,962	22,783	4,452	7,565	11,013	5,417	940	4,962	14,830
U. Texas, Austin	12	62,214	76,182	70,284	4,708	10,087	19,359	9,673	691	6,528	158	19,080
U. Virginia, Charlottesville	13	60,859	66,759	67,324	6,512	0	35,808	7,195	1,454	0	548	15,807
U. Georgia	14	62,476	62,627	63,130	19,776	4,040	9,560	9,408	4,404	2,061	5,771	8,110
Massachusetts Institute of Technology	15	70,828	69,387	61,915	7	41	46,996	5,859	482	174	659	7,697
Iowa State U.	16	17,316	15,976	56,769	2,246	607	3,168	7,528	0	0	2,317	40,903
U. Maryland[a]	17	na	49,324	55,151	1,103	517	3,540	5,322	4,477	21,864	445	17,883
Clemson U.	18	53,097	53,533	54,255	1,272	52	4,071	205	0	0	15	48,640
U. California, Los Angeles	19	75,491	56,841	54,234	13,019	4,400	24,926	6,443	3,303	0	1,965	178
Ohio State U.	20	56,586	52,848	54,061	1,090	466	20,898	2,339	761	5,341	1,788	21,378
U. Florida	21	33,731	47,868	52,546	4,848	3,419	18,990	6,181	121	8	1,366	17,613
Texas Tech U.	22	46,242	46,606	52,481	14,030	3,378	21,878	4,021	2,458	0	3,419	3,297
U. Central Florida	23	39,238	39,212	51,555	10,344	3,644	13,171	2,488	209	1,855	1,756	18,088
Columbia U. in the City of New York	24	38,733	37,919	51,003	3,460	2,107	5,335	10,222	5,096	19,152	319	5,312
Vanderbilt U. and Vanderbilt U. Medical Center	25	36,492	46,559	50,086	63	0	47,100	1,466	444	0	0	1,013
Purdue U., West Lafayette	26	95,748	65,516	48,429	10,976	1,607	10,039	3,433	0	0	250	22,124
U. Texas, San Antonio	27	6,490	8,607	46,980	7,081	964	6,649	3,166	0	588	640	27,892
U. South Florida, Tampa	28	50,742	60,357	46,005	6,675	2,240	23,240	5,466	0	1,281	2,922	4,181

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Stanford U.	29	51,283	45,427	44,141	432	890	41,378	957	433	2	0	49
U. North Carolina, Chapel Hill	30	42,095	40,119	43,949	2,554	1,998	12,874	2,943	302	13,796	1,700	7,782
U. California, Berkeley	31	48,815	51,347	43,697	12,957	5,834	7,287	3,425	13,449	0	745	0
U. Minnesota, Twin Cities	32	38,885	42,900	43,068	16,907	713	15,212	3,385	1,728	1,436	252	3,435
Cornell U.	33	37,881	40,724	42,944	5,459	4,985	399	2,145	654	0	2,843	26,459
U. Southern California	34	36,952	40,541	41,691	1,947	6,699	9,021	2,804	1,129	8,761	4,004	7,326
Texas A&M U., College Station and Health Science Center	35	39,987	40,781	40,859	10,234	426	26,397	1,543	791	248	212	1,008
Dartmouth C. and Dartmouth Hitchcock Medical Center	36	35,976	38,177	40,798	16,848	0	115	18,104	0	0	1,752	3,979
Washington State U.	37	42,098	42,688	40,370	5,411	3,611	23,605	1,037	295	133	83	6,195
Michigan State U.	38	41,331	43,690	38,813	5,991	3,630	16,078	2,912	0	1,291	446	8,465
Indiana U., Bloomington	39	32,096	37,708	35,808	7,235	533	4,401	2,098	1,531	0	3,850	16,160
U. Nebraska, Lincoln	40	32,892	32,276	35,528	11,151	1,247	3,209	6,924	3,339	0	2,608	7,050
American U.	41	29,835	31,522	34,334	5,403	6,801	1,130	2,955	12,393	0	798	4,854
U. California, Irvine	42	27,315	26,186	34,144	5,039	31	20,942	7,246	641	0	244	1
Auburn U., Auburn	43	28,275	31,768	33,778	14,782	1,018	4,190	7,030	1	205	0	6,552
Oklahoma State U., Stillwater	44	34,338	34,255	33,474	17,027	1,693	2,946	5,139	0	0	1,269	5,400
Georgetown U.	45	29,289	30,064	33,155	13,641	371	1,235	4,704	12,122	0	0	1,082
U. South Carolina, Columbia	46	60,616	69,507	31,555	1,845	179	2,284	762	304	7,509	556	18,116
Texas State U.	47	34,878	29,114	31,472	965	0	7,833	786	19,399	0	0	2,489
Georgia Institute of Technology	48	32,719	29,091	31,180	3,564	1,291	3,690	601	0	0	6,239	15,795
California Institute of Technology	49	27,996	24,373	30,954	0	91	0	10,411	0	0	0	20,452
U. Illinois, Urbana-Champaign	50	42,725	36,643	30,615	1,950	236	6,631	3,699	1,166	3,813	798	12,322
U. Utah	51	18,098 i	52,419 i	29,823 i	924 i	2,771 i	472 i	269 i	16 i	1,685 i	1,127 i	22,559 i
U. West Florida	52	25,325	29,802	29,555	20,282	302	6,381	400	24	116	9	2,041
Boston U.	53	48,341	25,392	29,183	7,766	628	9,023	2,736	3,992	4,354	123	561
U. Colorado Boulder	54	25,690	27,749	29,125	2,008	210	24,361	903	1,397	1	0	245
Virginia Commonwealth U.	55	23,433	24,766	28,285	0	18	22,720	1,290	0	1,454	462	2,341

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Missouri, Columbia	56	19,273	21,920	28,274	3	2,455	18,319	270	50	968	57	6,152
U. Nevada, Las Vegas	57	21,089	25,668	28,266	6,387	1,067	4,710	3,673	3,411	578	3,149	5,291
Emory U.	58	19,245	21,085	28,099	877	260	2,548	2,959	710	0	2,341	18,404
U. Tennessee, Knoxville[b]	59	25,902	25,967	28,093	8,215	1,913	2,810	5,775	3,026	1,760	2,108	2,486
U. Iowa	60	27,720	24,544	27,790	5,337	347	11,774	2,441	829	1,405	184	5,473
U. Massachusetts, Boston	61	27,608	23,020	27,392	990	6	24,700	1,179	0	176	227	114
Northwestern U.	62	29,214	29,462	26,992	11,847	3,298	6,237	3,986	993	0	631	0
U. Texas, Arlington	63	18,431	23,124	26,776	4,463	87	1,278	1,303	0	9,201	431	10,013
U. Notre Dame	64	29,524	28,384	26,720	6,139	0	53	6,020	586	0	476	13,446
Florida International U.	65	30,432	34,110	26,584	7,964	892	10,002	2,982	1,153	142	1,691	1,758
U. North Texas, Denton	66	6,294	24,168	26,475	9,588	1,588	4,938	2,725	0	166	6,971	499
Rutgers, State U. New Jersey, New Brunswick	67	39,914	36,055	26,421	1,837	1,236	5,752	4,723	0	3,067	1,024	8,782
U. Houston	68	18,941	26,489	25,846	1,644	37	3,404	1,371	409	6,006	19	12,956
U. Louisiana, Lafayette	69	21,901	12,586	25,845	6,428	1,468	8,750	6,185	0	1	1,492	1,521
U. Oregon	70	28,764	28,433	25,661	1,413	1,335	13,375	1,137	93	0	77	8,231
Washington U., Saint Louis	71	18,872	20,610	25,534	187	5	577	836	0	23,729	160	40
Temple U.	72	22,463	21,084	25,449	2,515	885	10,668	3,979	2,345	1,282	1,018	2,757
Illinois State U.	73	15,898	20,498	25,054	3	1	21,992	5	0	30	162	2,861
U. Arkansas, Fayetteville	74	29,469	31,265	24,604	3,862	152	14,355	455	1,415	206	77	4,082
U. Oklahoma, Norman and Health Science Center	75	20,775	19,304	24,585	543	1,636	1,469	131	53	415	606	19,732
Colorado State U., Fort Collins	76	18,004	16,225	23,258	446	816	2,435	587	118	176	46	18,634
U. Alabama, Tuscaloosa	77	12,081	15,285	22,940	8,544	901	6,622	555	474	3,819	783	1,242
George Mason U.	78	23,722	22,214	22,083	881	3,225	4,940	1,084	10,736	0	126	1,091
Pennsylvania State U., University Park and Hershey Medical Center	79	23,047	25,648	21,466	3,480	504	10,890	5,592	279	0	721	0
U. Texas, El Paso	80	10,208	14,604	21,191	6,679	1,167	2,554	3,280	0	1,636	2,001	3,874
George Washington U.	81	18,627	20,601	20,624	4,689	25	9,338	1,667	1,451	0	270	3,184
SUNY, U. Buffalo	82	16,979	19,538	20,398	3,913	161	14,352	457	524	0	217	774
Boston C.	83	14,229	17,188	19,895	36	58	11,563	806	543	6,369	50	470

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Cincinnati	84	15,806	16,399	18,886	2,707	80	6,264	3,037	0	0	187	6,611
San Diego State U.	85	18,319	18,231	18,845	3,968	904	3,532	5,813	0	1,230	1,586	1,812
Montana State U., Bozeman	86	10,633	14,452	18,842	441	246	2,645	1,786	0	12	1,975	11,737
U. Denver	87	5,652	14,909	18,737	29	110	7,724	14	148	10,613	99	0
North Carolina State U.	88	11,990	17,976	18,201	395	0	13,618	4,188	0	0	0	0
U. Arizona	89	15,028	18,980	17,742	2,633	71	2,823	4,499	890	0	5,690	1,136
SUNY, U. Albany	90	21,728	19,918	17,604	4,205	816	5,311	3,486	0	1,991	702	1,093
Duke U.	91	13,664	13,589	16,429	13,537	0	96	1,622	741	0	47	386
Kent State U.	92	16,089	14,321	16,378	4,112	1,516	4,823	2,894	0	34	1,472	1,527
Southern Methodist U.	93	9,635	15,059	16,199	3,110	0	7,161	2,907	1,745	0	38	1,238
Mississippi State U.	94	8,521	8,852	16,118	5,929	622	4,733	2,196	12	30	637	1,959
U. Illinois, Chicago	95	18,436	17,540	16,086	845	274	5,777	4,347	3	1,684	195	2,961
New Jersey Institute of Technology	96	37,784	24,431	15,662	1,868	0	7,306	304	0	0	0	6,184
U. South Florida, Saint Petersburg	97	5,732	8,997	15,651	1,247	252	12,661	939	0	0	307	245
U. Nevada, Reno	98	17,377	15,421	15,463	4,012	39	3,981	1,837	3,961	1,037	339	257
U. Memphis	99	13,478	11,475	15,270	4,474	440	3,263	1,995	1,099	857	1,989	1,153
Fordham U.	100	13,308	13,664	14,984	2,950	232	1,131	3,589	5,321	880	0	881
Yale U.	101	17,543	15,669	14,439	3,514	0	124	5,846	553	0	385	4,017
U. Massachusetts, Amherst	102	17,645	19,292	14,391	1,550	124	4,079	2,507	95	542	117	5,377
Kansas State U.	103	16,433	16,378	14,161	2,219	407	3,683	1,688	0	0	1,347	4,817
Wichita State U.	104	14,221	15,177	14,146	28	15	43	126	82	554	0	13,298
Princeton U.	105	13,710	15,039	14,088	0	0	746	8,544	0	44	3,451	1,303
U. Louisville	106	8,222	11,740	13,949	2,986	263	2,805	872	856	4,308	766	1,093
Carnegie Mellon U.	107	13,165	13,364	13,865	8,364	0	91	4,430	0	0	876	104
Tulane U.	108	13,481	14,489	13,706	0	68	6	1,226	5,547	0	483	6,376
U. North Carolina, Greensboro	109	8,369	9,825	13,602	65	12	10,009	140	0	717	353	2,306
Wayne State U.	110	8,628	9,145	13,506	380	52	2,749	186	33	7,898	185	2,023
U. California, Santa Barbara	111	11,815	13,681	12,911	8,112	348	2,853	1,391	0	0	105	102
Chapman U.	112	4,246	7,094	12,709	0	585	3,318	362	939	0	6	7,499

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Pittsburgh, Pittsburgh	113	10,751	12,205	12,685	1,291	16	6,804	598	630	1,433	90	1,823
U. Texas, Dallas	114	12,365	13,101	12,661	7,877	0	750	4,034	0	0	0	0
U. Vermont	115	114	186	12,319	3,386	346	1,897	5,059	0	139	1,492	0
U. California, Davis	116	14,057	13,098	12,019	206	559	6,678	1,140	652	0	2,775	9
SUNY, Binghamton U.	117	8,834	10,851	11,950	1,503	78	3,284	3,691	0	346	333	2,715
U. Baltimore	118	6,762	8,977	11,598	0	0	166	0	749	0	0	10,683
U. Kentucky	119	10,061	12,197	11,543	4,446	320	792	330	74	1,454	602	3,525
U. New Hampshire	120	13,052	11,354	11,057	3,485	43	4,869	1,414	228	911	0	107
William & Mary	121	10,761	9,148	10,906	1,031	0	6,609	1,440	725	0	120	981
East Carolina U.	122	3,008	7,999	10,697	3,403	58	4,426	1,476	0	141	126	1,067
U. Chicago	123	11,202	10,908	10,487	897	0	4,249	784	0	4,021	0	536
Northeastern U.	124	10,165	9,513	10,266	1,090	776	3,209	570	1,883	0	199	2,539
Virginia Polytechnic Institute and State U.	125	11,061	9,815	10,169	3,232	159	2,437	461	0	73	522	3,285
Portland State U.	126	10,385	11,319	10,013	0	7	2,068	84	5	3,000	0	4,849
U. Connecticut	127	12,859	12,730	9,734	939	245	1,874	1,287	102	2,885	607	1,795
U. Alabama, Birmingham	128	13,147	12,502	9,681	94	0	1,767	1	0	268	0	7,551
U. North Dakota	129	9,804	9,995	9,616	1,208	406	2,654	1,619	886	149	806	1,888
Ohio U.	130	3,785 i	8,154	9,545	3,389	388	1,508	1,343	0	1,559	586	772
CUNY, John Jay C. of Criminal Justice	131	8,417	9,309	9,382	184	4	51	9	9,011	0	0	123
Brown U.	132	11,149	11,071	9,256	65	0	3,906	2,735	16	0	212	2,322
Western Michigan U. and Homer Stryker M.D. School of Medicine	133	5,271	9,911	9,191	61	19	8,877	49	0	12	160	13
U. Maine	134	884	8,292	9,184	1,684	865	1,452	2,366	0	548	651	1,618
U. Texas Rio Grande Valley	135	1,502	9,302	9,092	1,793	381	1,460	753	0	277	1,225	3,203
Louisiana State U., Baton Rouge	136	8,651	9,294	8,922	1,351	442	480	717	489	114	61	5,268
U.S. Air Force Academy	137	2,458	9,001	8,889	802	0	7,841	0	0	0	0	246
Northern Illinois U.	138	4,315	8,233	8,745	808	2	474	0	4	0	196	7,261
U. Montana, Missoula	139	4,467	8,419	8,714	785	234	2,832	1,269	685	2,793	0	116
Rhode Island C.	140	8,511	8,671	8,656	780	0	7,054	0	0	822	0	0

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Indiana U.-Purdue U., Indianapolis	141	6,231	9,485	8,596	1,324	53	1,281	1,267	78	1,183	368	3,042
Brandeis U.	142	4,889	4,087	8,539	0	0	2,004	0	0	0	79	6,456
Baylor U.	143	6,647	7,013	8,452	2,173	429	296	3,366	0	1,444	96	648
U. California, San Diego	144	9,025	9,578	8,387	664	1,164	2,515	2,131	0	0	1,428	485
Drexel U.	145	7,801	8,574	8,331	76	12	4,014	208	17	0	320	3,684
Rochester Institute of Technology	146	5,734	8,226	8,205	31	8	5,753	241	0	0	1,374	798
West Virginia U.	147	9,028	8,937	8,103	1,884	84	1,309	248	162	94	55	4,267
U. North Florida	148	4,328	6,902	8,083	3,645	16	4,140	151	0	0	104	27
Marquette U.	149	7,848	8,921	7,984	397	825	158	1,464	1,109	0	62	3,969
U. Rhode Island	150	6,219	7,731	7,908	1,001	1,438	2,289	88	2	0	0	3,090
U. Southern Mississippi	151	11,551	11,215	7,826	103	0	73	873	0	235	1	6,541
Rensselaer Polytechnic Institute	152	6,635	4,413	7,403	89	23	0	153	488	16	750	5,884
U. Alabama, Huntsville	153	4,886	4,920	7,326	2,675	136	3,385	739	0	0	391	0
U. Colorado Denver and Anschutz Medical Campus	154	7,782	6,913	7,162	324	32	4,440	167	0	193	0	2,006
Florida A&M U.	155	5,245	5,865	7,125	811	0	1,394	0	0	0	0	4,920
Montclair State U.	156	3,015	7,628	7,032	935	311	3,965	1,005	25	198	487	106
Bowling Green State U.	157	8,421	6,914	7,030	32	339	5,638	372	0	3	572	74
U. Mississippi	158	20,131	21,334	6,988	1,019	143	1,191	1,827	2,016	75	335	382
U. California, Riverside	159	5,793	5,509	6,973	23	0	3,335	1,670	0	0	19	1,926
Tufts U.	160	15,979	16,726	6,958	109	0	3,128	1,135	0	11	156	2,419
U. Massachusetts, Lowell	161	7,206	7,226	6,870	2,273	0	2,106	1,772	0	0	542	177
Old Dominion U.	162	8,574	7,567	6,842	365	0	5,761	311	0	0	214	191
San Jose State U.	163	3,114	4,491	6,827	5,751	4	4	62	0	108	0	898
Sam Houston State U.	164	1,530	3,265	6,679	146	8	5,435	12	0	0	16	1,062
Rice U.	165	4,479	5,438	6,468	877	0	3,996	1,286	0	0	75	234
U. Wisconsin-Milwaukee	166	2,186	2,823	6,287	298	396	788	2,598	0	672	300	1,235
Louisiana Tech U.	167	6,566	6,383	6,214	4,781	0	380	461	0	0	471	121
U. New Mexico	168	5,922	6,386	6,126	749	1,020	2,025	578	593	380	16	765
Cleveland State U.	169	6,438	6,223	6,097	1,901	0	1,984	0	897	60	0	1,255

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020							
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Bryn Mawr C.	170	4,574	4,875	6,067	0	0	159	4,236	0	1,247	266	159
Oregon State U.	171	5,749	5,895	5,959	0	0	0	94	0	0	0	5,865
U. Delaware	172	6,632	5,335	5,928	478	444	4,703	303	0	0	0	0
U. Washington, Bothell	173	6,736	5,594	5,847	293	41	5,469	0	0	0	0	44
Johns Hopkins U.[c]	174	4,881 i	4,156 i	5,825 i	0 i	0 i	0 i	5,696 i	0 i	0 i	0 i	129 i
North Dakota State U.	175	5,162	6,658	5,778	2,362	639	560	1,118	0	0	589	510
Naval War C.	176	0	4,381	5,220	0	0	0	0	0	0	0	5,220
Seton Hall U.	177	5,812	6,246	5,179	0	0	5,179	0	0	0	0	0
Villanova U.	178	4,354	4,612	5,091	2,382	95	380	1,506	254	0	29	445
Salisbury U.	179	4,252	4,498	5,064	683	127	2,016	141	1	1,402	69	625
Claremont Graduate U.	180	5,590 i	6,081	5,038	455	0	3,127	0	0	0	0	1,456
U. Puerto Rico, Rio Piedras	181	3,196	6,069	5,007	93	0	301	164	0	269	0	4,180
Rutgers, State U. New Jersey, Newark	182	4,016	5,370	4,888	2,436	0	4	208	672	20	190	1,358
U. North Carolina, Charlotte	183	5,018	4,490	4,869	1,267	3	2,035	347	0	330	30	857
North Carolina Agricultural and Technical State U.	184	3,426	4,042	4,769	1,524	0	996	0	0	0	0	2,249
Brigham Young U., Provo	185	6,479	6,307	4,759	963	0	1,634	1,788	146	0	0	228
U. San Diego	186	2,151	2,294	4,707	671	149	1,150	754	1,419	0	190	374
William Paterson U.	187	5,765	5,698	4,631	1,001	249	1,564	1,496	0	0	321	0
Naval Postgraduate School	188	6,662	6,801	4,627	2,955	128	914	0	127	0	0	503
U. South Dakota	189	3,775	3,572	4,513	887	268	752	491	515	220	429	951
CUNY, Hunter C.	190	3,950	4,705	4,394	0	8	2,015	529	0	1,818	24	0
Boise State U.	191	3,423	4,296	4,388	1,018	122	2,313	318	0	36	380	201
U. Central Oklahoma	192	3,876	4,253	4,366 i	1 i	0 i	4,225 i	0 i	0 i	0 i	0 i	140 i
St. Edward's U.	193	7,618	3,837	4,242	435	303	2,754	328	55	30	32	305
U. Maryland, Baltimore County	194	1,123	3,714	4,198	1,198	0	449	89	0	0	143	2,319
James Madison U.	195	332	3,758	4,078	937	124	451	517	3	629	101	1,316
Texas A&M U.-Corpus Christi	196	2,176	3,648	4,038	14	2	1,033	15	2	0	35	2,937
Southern Illinois U., Edwardsville	197	1,506	2,575	4,013	0	0	836	1,642	12	0	41	1,482
New School	198	5,494	4,242	3,931	713	73	570	693	0	544	523	815

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Middle Tennessee State U.	199	3,397	3,199	3,917	114	73	1,208	2,465	0	37	0	20
Long Island U.	200	674	255	3,849	0	942	202	1,825	0	0	815	65
Florida Atlantic U.	201	3,390	4,686	3,843	816	0	514	0	0	26	0	2,487
Colorado School of Mines	202	2,084	3,087	3,754	36	0	59	8	0	0	0	3,651
Duquesne U.	203	3,299	3,771	3,634	1,188	0	1,071	615	412	0	18	330
U. California, Santa Cruz	204	4,317	4,503	3,629	0	162	387	2,283	0	0	797	0
U. Idaho	205	6,012	5,756	3,626	28	88	1,939	83	65	0	40	1,383
California State U., East Bay	206	ne	ne	3,557	1,044	43	2,189	149	0	24	88	20
West Chester U. Pennsylvania	207	3,093	2,990	3,552	557	71	566	488	0	164	283	1,423
California State U., Sacramento	208	3,412	3,265	3,514	817	0	1,735	402	0	248	125	187
Azusa Pacific U.	209	4,173	2,867	3,459	639	57	687	1,358	0	216	346	156
California State U., San Bernardino	210	5,167	3,643	3,404	0	0	3,397	0	0	4	0	3
Kennesaw State U.	211	3,208	10,186	3,399	2,072	420	346	378	0	53	26	104
Wake Forest U.	212	380	2,439	3,372	119	119	972	1,796	70	0	261	35
Utah State U.	213	3,403	3,441	3,362	655	0	1,130	132	59	0	9	1,377
High Tech High Graduate School of Ed.	214	861	ne	3,304	0	0	3,304	0	0	0	0	0
SUNY, Stony Brook U.	215	4,067	3,765	3,267	135	637	397	1,358	0	378	261	101
U. Nebraska, Omaha	216	1,956	2,527	3,256	667	0	1,632	21	0	0	46	890
Marshall U.	217	2,007	1,799	3,230	484	0	1,746	0	0	0	0	1,000
Florida Gulf Coast U.	218	3,373	4,437	3,217	900	0	2,203	3	38	0	7	66
Michigan Technological U.	219	3,484	3,590	3,196	1,557	0	266	1,078	0	0	295	0
Wellesley C.	220	6,634	3,734	3,131	0	1,231	1,530	134	38	0	86	112
California Polytechnic State U., San Luis Obispo	221	492	295	2,926	2,003	97	266	555	0	0	0	5
U. New Orleans	222	2,289	2,615	2,908	203	0	407	1,234	0	0	491	573
Grinnell C.	223	1,775	1,845	2,905	0	0	144	1,570	0	0	1,026	165
U. Oklahoma, Tulsa	224	2,365	2,370	2,892	0	0	2,399	0	0	419	0	74
Indiana U. Pennsylvania	225	3,976	4,482	2,863	1,163	243	238	978	0	0	49	192
Loyola Marymount U.	226	3,791	2,950	2,704	578	87	274	816	647	0	34	268

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020							
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Miami U.	227	2,538	3,100	2,681	485	103	1,577	53	0	45	17	401
U. Missouri, Saint Louis	228	1,558	1,567	2,676	322	97	1,352	370	0	139	20	376
Saint Louis U.	229	4,467	4,196	2,670	0	2	1,129	869	292	229	11	138
Ball State U.	230	4,751	5,120	2,658	638	0	353	238	228	82	0	1,119
Tarleton State U.	231	543	1,605	2,637	725	154	1,243	248	267	0	0	0
Prairie View A&M U.	232	2,512	2,480	2,620	37	0	325	170	1,970	0	0	118
U. Hawaii, Manoa	233	3,417	2,712	2,609	189	271	1,523	132	44	137	8	305
U. California, Merced	234	2,473	2,279	2,545	0	0	0	436	0	0	0	2,109
Western Washington U.	235	2,163	2,087	2,508	122	3	422	1,221	64	0	586	90
Eastern Michigan U.	236	2,963	2,469	2,504	895	81	370	369	1	273	515	0
Babson C.	237	693 i	1,845 i	2,352 i	2,352 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Wesleyan U.	238	2,133	2,244	2,329	0	338	940	790	0	0	239	22
San Francisco State U.	239	3,062	2,221	2,299 i	671 i	136 i	953 i	318 i	0 i	1 i	115 i	105 i
U. Toledo	240	2,136	2,351	2,257	313	59	935	80	47	231	29	563
Virginia State U.	241	1,999	2,234	2,188	0	0	2,000	0	0	0	0	188
Texas A&M U.-Kingsville	242	2,707	2,731	2,177	21	0	1,920	0	0	0	0	236
North Carolina Central U.	243	3,643	2,875	2,134	211	122	1,035	0	163	109	59	435
Georgia Southern U.	244	828	1,532	2,117	857	0	521	17	0	3	0	719
Stevens Institute of Technology	245	1,495	1,218	2,107	702	0	8	0	0	0	638	759
Case Western Reserve U.	246	4,062	3,142	2,053	556	0	1,398	2	82	0	0	15
St. Cloud State U.	247	2,031	1,840	2,016	0	6	1,467	15	0	2	20	506
National Defense U.	248	2,057	2,076	2,000	0	0	2,000	0	0	0	0	0
Erikson Institute	249	3,583	2,279	1,992	0	0	1,992	0	0	0	0	0
Lamar U.	250	279	1,652	1,988	628	4	848	36	0	0	17	455
U. Alaska, Fairbanks	251	1,928	2,150	1,935	73	0	1,788	0	0	0	0	74
Northern Arizona U.	252	794	1,151	1,908	363	87	1,171	68	0	165	54	0
Southern Connecticut State U.	253	1,079	1,871	1,887	504	5	505	563	0	93	22	195
U. North Carolina, Asheville	254	773	2,376	1,857	54	56	636	884	0	132	0	95
California State U., Northridge	255	2,582	2,337	1,823	267	0	898	190	45	159	0	264

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
U. Tennessee, Chattanooga	256	1,751	1,943	1,774	1,564	78	41	91	0	0	0	0
Texas Christian U.	257	2,529	2,261	1,736	113	0	1,440	0	0	9	40	134
Franklin and Marshall C.	258	1,858	1,949	1,704	38	0	200	149	0	0	62	1,255
Gallaudet U.	259	571	2,127	1,695	0	957	25	695	0	0	1	17
U. Missouri, Kansas City	260	2,279	1,860	1,661	6	10	976	190	5	0	57	417
Lehigh U.	261	2,825	2,771	1,637	63	7	1,322	161	0	0	0	84
Texas A&M U.-Commerce	262	873	975	1,622	189	0	235	117	0	14	0	1,067
U. Houston-Downtown	263	1,555	1,735	1,617	9	0	1,519	0	0	0	0	89
U. South Florida, Sarasota-Manatee	264	1,496	1,354	1,612	886	0	142	175	0	93	0	316
C. Charleston	265	1,925	2,404	1,586	212	7	359	265	0	0	136	607
Grambling State U.	266	1,638	1,909	1,572	0	45	328	0	0	1,141	0	58
U. North Georgia	267	1,921	1,517	1,542	0	10	995	517	0	0	20	0
U. North Carolina, Wilmington	268	1,897	1,476	1,539	582	0	714	36	0	0	20	187
U. Massachusetts, Dartmouth	269	2,090	1,482	1,510	11	115	1,159	0	0	0	12	213
U. Dayton	270	3,365	1,419	1,502	74	20	882	32	0	259	9	226
Reed C.	271	0	0	1,493	0	0	0	985	0	0	205	303
Bucknell U.	272	630	1,564	1,482 i	60 i	0 i	2 i	758 i	0 i	0 i	54 i	608 i
La Sierra U.	273	2,080	1,368	1,467	125	0	839	235	0	0	0	268
Colorado C.	274	1,266	1,180	1,463	0	2	164	303	0	300	404	290
New Mexico State U.	275	2,277	1,424	1,458	5	25	1,199	25	0	0	9	195
CUNY, City C.	276	847	1,433	1,457	0	0	121	17	0	0	47	1,272
Lewis and Clark C.	277	1,404	1,380	1,443	0	9	107	81	1,219	0	27	0
Creighton U.	278	1,691 i	1,761 i	1,440 i	352 i	51 i	355 i	221 i	133 i	71 i	47 i	210 i
U. Rochester	279	1,573	1,685	1,437	124	0	1,150	141	0	0	12	10
Purdue U., Northwest	280	3,367	2,161	1,424	1,016	0	68	141	0	0	64	135
Mills C.	281	1,806	1,413	1,412	10	0	1,362	30	0	0	10	0
Winston-Salem State U.	282	340	543	1,403	0	0	1,248	79	0	0	7	69
Saint Joseph's U.	283	896	1,163	1,402	756	8	496	119	0	0	19	4
Central Michigan U.	284	2,210	1,495	1,398	368	51	90	59	0	0	18	812

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020							
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Johnson C. Smith U.	285	1,043	1,114	1,385	0	0	1,043	0	0	0	0	342
U. Northern Colorado	286	1,367	1,414	1,376	351	15	902	13	0	0	18	77
Williams C.	287	1,134	1,453	1,375 i	1 i	0 i	0 i	698 i	0 i	0 i	99 i	577 i
Texas A&M International U.	288	2,006	2,034	1,354	91	0	68	2	0	0	11	1,182
U. Central Arkansas	289	1,367	1,327	1,348	0	0	708	0	0	0	2	638
California State U., San Marcos	290	1,163	1,149	1,332	12	0	502	0	0	0	41	777
U. Wyoming	291	206	425	1,323	0	0	210	0	0	0	0	1,113
Pacific U.	292	2,108	2,146	1,302	67	0	937	298	0	0	0	0
Oregon Institute of Technology	293	18 i	1,436 i	1,299 i	1,155 i	144 i	0 i	0 i	0 i	0 i	0 i	0 i
Suffolk U.	294	ne	ne	1,261	903	0	241	0	44	0	0	73
Western Kentucky U.	295	1,614	1,409	1,219	256	49	379	399	0	89	31	16
Stephen F. Austin State U.	296	737	438	1,216	3	2	490	80	0	180	11	450
Pace U.	297	2,134	1,471	1,195	169	3	943	8	56	0	0	16
Jacksonville State U.	298	2,628	2,262	1,186	0	0	1,186	0	0	0	0	0
CUNY, Graduate Center	299	636	1,236	1,174	0	0	409	0	5	0	0	760
U. Colorado Colorado Springs	300	1,246	1,280	1,172	562	0	108	0	0	0	0	502
Colorado State U., Pueblo	301	ne	1,099	1,167	0	0	0	0	0	0	0	1,167
U. Texas of the Permian Basin	302	368	ne	1,166	521	0	2	170	0	0	0	473
Loyola U., Chicago	303	2,283	2,013	1,155	7	0	138	13	49	738	0	210
Seattle U.	304	1,167	1,095	1,152	1	0	831	20	247	5	5	43
California State U., Bakersfield	305	944	979	1,151	107	93	592	291	0	0	67	1
Worcester Polytechnic Institute	306	1,590	2,056	1,143	369	0	311	97	0	0	0	366
Kean U.	307	ne	ne	1,125	29	0	847	47	186	0	16	0
Catholic U. of America	308	1,228	1,082	1,122	0	0	0	223	161	180	0	558
Hamilton C.	309	916	1,209	1,084	0	0	301	557	0	0	194	32
Elon U.	310	1,182	1,383	1,078	337	220	76	245	0	0	174	26
Stockton U.	311	0	4	1,038	296	0	33	102	0	2	411	194

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas Tech U., Health Sciences Center	312	1,035	1,113	1,033	0	0	921	0	0	0	0	112
Western U. of Health Sciences	312	1,077	1,015	1,033	0	0	1,033	0	0	0	0	0
Winthrop U.	314	1,142	1,043	1,017	8	0	901	44	0	53	1	10
Clarkson U.	315	1,147	936	1,009	574	13	322	88	0	0	2	10
Swarthmore C.	316	1,231	1,408	1,004	25	0	34	140	0	0	805	0
U. San Francisco	316	1,572	1,517	1,004	202	22	572	161	0	0	47	0
Florida Institute of Technology	318	1,035	1,029	995	161	17	37	0	0	0	0	780
Carleton C.	319	3,597	442	974	0	0	78	741	0	0	155	0
U. Massachusetts, central office	320	1,990	1,479	953	0	0	909	0	0	0	0	44
U. of Mary Washington	321	906	1,035	944	454	0	140	320	0	0	0	30
U. Miami	322	1,972	2,095	940	24	57	661	172	2	0	24	0
Niagara U.	323	1,878	1,486	922	43	5	561	39	0	20	68	186
Amherst C.	324	1,303	945	915	0	0	0	483	0	0	432	0
Franklin W. Olin C. of Engineering	325	378	1,121	913	0	0	913	0	0	0	0	0
U. Akron	326	793	930	901	165	15	244	89	132	0	256	0
Texas Woman's U.	327	1,557	1,481	897	0	0	818	0	0	0	0	79
Purdue U., Fort Wayne	328	1,544	1,196	884	74	0	10	105	0	0	61	634
U. Maryland Center for Environmental Science	328	738	912	884	0	0	884	0	0	0	0	0
Willamette U.	330	1,180	1,058	881	52	1	147	180	157	0	54	290
CUNY, Queens C.	331	707	748	864	6	6	695	19	0	0	0	138
Austin Peay State U.	332	1,453	1,116	859	3	0	6	9	0	3	708	130
U. Nebraska, central administration	333	639	1,163	858	0	0	0	0	0	0	0	858
Howard U.	334	1,373	936	856	0	143	181	0	0	532	0	0
Pepperdine U.	335	1,263	1,145	853	96	40	340	60	212	0	48	57
Wright State U.	336	420	429	851	257	0	57	0	459	0	0	78
U. Arkansas, Little Rock	337	1,088	841	828	0	0	712	0	76	0	0	40

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Fayetteville State U.	338	2,479	2,471	812	504	0	277	0	0	31	0	0
DePaul U.	339	754	903	803	369	4	230	104	26	56	9	5
Texas Southern U.	339	1,103	0	803	0	0	0	0	0	0	0	803
California State U., Long Beach	341	4,472	1,205	784	9	70	270	153	0	164	39	79
Appalachian State U.	342	244	208	753	163	47	317	90	0	97	37	2
Colgate U.	343	681	628	750	0	0	51	647	0	0	52	0
Rowan U.	344	429	912	749	16	0	419	114	122	0	0	78
Eastern Connecticut State U.	345	512	788	742	0	0	5	544	0	0	193	0
West Texas A&M U.	346	356	416	732	0	0	89	0	0	0	0	643
Liberty U.	347	ne	351	727	400	0	4	6	0	0	14	303
CUNY, Lehman C.	348	899	2,096	725	0	161	453	19	0	28	0	64
La Salle U.	349	ne	ne	719	93	48	45	251	0	37	113	132
Southeastern Louisiana U.	350	735	831	694	619	0	0	75	0	0	0	0
South Carolina State U.	351	1,109 i	649	673 i	124 i	0 i	549 i	0 i	0 i	0 i	0 i	0 i
Hope C.	352	168	51	665	0	3	60	205	0	3	8	386
U. Puerto Rico, Mayaguez	353	1,005	785	657	0	0	0	0	0	4	0	653
U. of the District of Columbia	354	0	757	648	0	0	0	0	0	0	0	648
Lawrence Technological U.	355	600	377	646	0	0	343	69	0	0	0	234
Northeastern Illinois U.	356	565	400	640	0	0	547	0	0	0	0	93
Smith C.	357	594	711	638	0	0	106	313	0	7	195	17
Trinity U.	357	607	551	638	79	52	28	403	0	0	42	34
U. Michigan, Dearborn	359	683	721	636	250	0	70	42	0	0	0	274
California State U., Chico	360	154	670	634	32	0	552	12	0	0	0	38
U. of St. Thomas (MN)	361	301	475	632	0	0	174	0	0	0	4	454
Des Moines U.	362	72	311	626	0	0	626	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	363	639	779	617	0	0	429	0	0	0	0	188
Spelman C.	364	677	747	614	0	0	0	614	0	0	0	0
U.S. Military Academy	365	7,269	4,333	601	0	0	30	463	108	0	0	0
Bowie State U.	366	739	1,035	599	259	0	0	0	0	0	0	340

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																							
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
Northwestern State U. Louisiana	366	424		783		599		243		200		86		6		8		0		52		4	
Rutgers, State U. New Jersey, Camden	366	1,214		1,322		599		5		0		0		27		146		0		16		405	
Saint John's U., Collegeville	366	640		631	i	599	i	78	i	58	i	11	i	380	i	0	i	0	i	72	i	0	i
U. Alaska, Anchorage	370	1,842		1,069		590		332		1		225		0		0		0		0		32	
Central Connecticut State U.	371	ne		415		583		7		5		529		28		0		0		6		8	
C. of Saint Benedict	372	622		614	i	582	i	86	i	64	i	13	i	339	i	0	i	0	i	80	i	0	i
Hampton U.	373	755		662		560		124		0		219		0		0		0		0		217	
Nova Southeastern U.	374	890		290		559		51		0		250		0		19		0		0		239	
CUNY, Brooklyn C.	375	546		538	i	556		0		2		518		22		0		0		14		0	
U. Illinois, Springfield	376	60		149		547		0		0		415		13		0		0		119		0	
MGH Institute of Health Professions	377	371		636		535		0		0		535		0		0		0		0		0	
U. South Alabama	378	537		572		531		0		0		348		53		0		0		1		129	
Northwest Indian C.	379	505		458		527	i	0	i	0	i	227	i	0	i	0	i	0	i	0	i	300	i
Fairfield U.	380	208		575		526		293		32		14		173		7		7		0		0	
Delaware State U.	381	2,461		505		523	i	364	i	0	i	0	i	76	i	0	i	51	i	0	i	32	i
Alabama A&M U.	382	943	i	751	i	512	i	76	i	21	i	189	i	44	i	19	i	33	i	15	i	115	i
California State U., Fresno	383	574		358		509		68		0		153		130		37		0		0		121	
U. Minnesota, Duluth	384	496		671		503		168		7		44		10		0		5		63		206	
U. Michigan, Flint	385	284		914		493		1		0		39		24		0		0		14		415	
Clark U.	386	668		767		482		0		0		161		197		0		0		8		116	
California State U., Fullerton	387	624		1,156		472		93		27		123		182		0		1		22		24	
Tennessee Technological U.	387	538		694		472		41		0		185		3		0		0		0		243	
Hofstra U.	389	315		491		468		0		0		425		23		0		0		13		7	
Tennessee State U.	390	1,326		860		464		4		0		377		0		0		0		0		83	
Elizabeth City State U.	391	0		ne		463		0		0		0		0		0		0		0		463	
U. Minnesota, Morris	391	ne		600		463		0		8		1		163		0		0		26		265	
Teachers C., Columbia U.	393	1,216		631		460		0		0		460		0		0		0		0		0	
Langston U.	394	413	i	393		455		0		0		266		4		0		0		0		185	
U. Southern Maine	394	718		596		455		17		0		12		0		0		0		3		423	

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Claremont McKenna C.	396	394	291	443	0	0	0	443	0	0	0	0
Grand Valley State U.	397	239	388	438	14	18	51	90	2	3	21	239
Emerson C.	398	356	359	434	0	10	25	20	0	0	114	265
Davidson C.	399	300	228	421	0	0	0	264	0	0	0	157
Minnesota State U., Mankato	400	650	727	415	13	0	11	24	0	0	0	367
Salish Kootenai C.	401	778	486	413	0	0	413	0	0	0	0	0
Indiana State U.	402	346	432	403	0	0	402	0	0	1	0	0
California State U., Los Angeles	403	107	393 i	402	0	2	397	0	0	0	0	3
U. Richmond	404	483	472	396	169	53	1	111	0	0	62	0
U. Wisconsin-River Falls	405	300	ne	395	0	0	197	0	0	0	0	198
St. Bonaventure U.	406	ne	ne	378	5	0	78	294	0	0	0	1
U. Guam	407	172	248	369	0	0	369	0	0	0	0	0
Christopher Newport U.	408	295	0	364	5	109	0	174	0	0	58	18
Northern Michigan U.	409	765	473	360	0	0	18	318	0	0	7	17
Towson U.	410	161	178	353	134	13	35	28	0	0	81	62
St. John's U., New York	411	268	43	352	0	2	31	6	130	0	0	183
Embry-Riddle Aeronautical U.	412	166	171	350	249	0	0	0	0	0	0	101
Western Carolina U.	413	77	115	344	114	0	16	0	0	88	26	100
South Dakota State U.	414	178	332	339	0	26	15	32	0	0	0	266
Humboldt State U.	415	61	185	337	4	90	65	0	0	0	0	178
Albany State U.	416	190	162	330	0	0	330	0	0	0	0	0
U. Washington, Tacoma	417	901	419	325	0	0	145	0	0	124	0	56
New Mexico Institute of Mining and Technology	418	123	93	324	39	0	285	0	0	0	0	0
Citadel Military C. South Carolina	419	ne	ne	319	16	0	288	15	0	0	0	0
Rhode Island School of Design	420	347 i	336 i	318 i	0 i	0 i	77 i	109 i	0 i	0 i	41 i	91 i
Kettering U.	421	471	152	310	242	0	0	0	0	0	0	68
East Tennessee State U.	422	349 i	294 i	307 i	277 i	30 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Tulsa	423	275	468	300	5	0	184	8	0	0	103	0
Barnard C.	424	520	471	299	0	0	167	79	0	0	30	23

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
SUNY, C. of Environmental Science and Forestry	425	51	158	296	101	0	0	0	0	72	91	32
U.S. Naval Academy	425	0	140	296	0	0	0	296	0	0	0	0
Dickinson C.	427	ne	561	295	2	0	3	281	0	0	9	0
Northern Kentucky U.	428	224	338	282	13	11	104	38	6	41	17	52
Stonehill C.	429	ne	ne	281	0	0	281	0	0	0	0	0
Morgan State U.	430	266	462	274	0	0	43	36	0	12	0	183
Pomona C.	431	558	746	273	0	34	0	184	0	0	55	0
Albion C.	432	317	287	266	0	21	24	117	0	0	103	1
U. Wisconsin-Platteville	433	ne	255 i	261 i	0 i	0 i	139 i	28 i	32 i	0 i	9 i	53 i
California State U., Dominguez Hills	434	461	394	255	44	25	98	52	0	0	12	24
C. Wooster	435	156	172	253	0	2	12	135	0	0	70	34
Weber State U.	436	ne	ne	249	0	0	175	0	0	0	0	74
Idaho State U.	437	422	412	246	0	30	161	17	0	0	2	36
Roger Williams U.	437	272	393	246	1	0	158	0	66	0	0	21
California State Polytechnic U., Pomona	439	505	776	245	0	0	0	0	0	0	0	245
Manhattan C.	440	ne	221	243	178	0	65	0	0	0	0	0
U. Houston-Clear Lake	441	24	257	235	0	0	4	24	0	0	0	207
CUNY, system office	442	313	906	234	0	0	0	0	0	0	0	234
CUNY, New York City C. of Technology	443	60	135	228	0	2	226	0	0	0	0	0
U. Wisconsin-La Crosse	444	391	337	225	65	9	0	34	0	0	13	104
Union C., Schenectady	444	243	286	225	0	0	0	118	0	0	44	63
Fort Hays State U.	446	ne	266	220	3	2	199	0	0	0	0	16
Doane U.	447	140	206	212 i	0 i	0 i	212 i	0 i	0 i	0 i	0 i	0 i
Lafayette C.	448	576	453	205	0	0	6	79	0	0	58	62
U. Hartford	449	613	0	197	0	0	0	185	0	12	0	0
Clark Atlanta U.	450	23	540	193	0	0	0	0	0	96	0	97
Macalester C.	451	186	226	190	0	0	0	122	0	0	0	68
Missouri U. of Science and Technology	452	329	286	188	34	46	0	36	0	0	0	72

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																			
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
Bowdoin C.	453	218		314		165		0		0		9		81		0		0		52		23	
Western Illinois U.	454	52		66		164		0		0		163		0		0		0		0		1	
Mercer U.	455	99		91		161		47		0		32		0		0		0		0		82	
St. Olaf C.	456	251		174		159		5		13		13		97		1		14		16		0	
CUNY, Baruch C.	457	1,081		400		153		110		7		0		36		0		0		0		0	
CUNY, C. Staten Island	458	474	i	469		148		0		19		29		100		0		0		0		0	
Cold Spring Harbor Laboratory	459	0		0		147		0		0		0		147		0		0		0		0	
CUNY, Advanced Science Research Center	459	204		10		147		0		0		0		0		0		0		0		147	
Colby C.	461	292		211		146		0		0		18		112		0		0		16		0	
Morehouse C.	462	166		137		139		0		0		0		0		0		0		130		9	
U. Wisconsin-Green Bay	463	101	i	147	i	133	i	25	i	8	i	43	i	14	i	0	i	7	i	5	i	31	i
California Lutheran U.	464	ne		473		132		7		11		70		28		0		0		8		8	
SUNY, Polytechnic Institute	464	42		101		132		0		0		0		132		0		0		0		0	
Mercyhurst U.	466	ne		128	i	131	i	36	i	5	i	35	i	23	i	0	i	7	i	4	i	21	i
Keck Graduate Institute	467	117	i	126	i	129	i	70	i	0	i	0	i	48	i	0	i	1	i	10	i	0	i
Texas Tech U., Health Sciences Center, El Paso	468	411		234		127		0		0		125		0		0		0		0		2	
U. Texas, Tyler	469	239		34		125		6		0		53		0		0		0		9		57	
Youngstown State U.	470	28		79		124		4		0		69		2		0		0		0		49	
Mount Holyoke C.	471	426		290		121		0		0		0		0		0		0		111		10	
Illinois Institute of Technology	472	714		114		119		0		0		106		0		0		0		0		13	
Trinity C., Hartford	472	249		279		119		0		0		4		103		0		0		12		0	
U. Nebraska, Kearney	474	548		283		116		30		0		44		4		0		2		4		32	
SUNY, Geneseo	475	126		181		114		10		10		9		64		0		0		16		5	
Santa Clara U.	476	117		99		113		35		0		0		0		78		0		0		0	
Merrimack C.	477	109		ne		112		0		0		110		0		0		0		0		2	
California State U., Monterey Bay	478	97		252		111		3		1		0		0		0		52		0		55	
Missouri State U.	478	18		241		111		0		0		0		0		0		0		0		111	

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020							
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Hobart and William Smith Colleges	480	ne	73	107	25	1	24	34	0	0	8	15
New York Institute of Technology	480	169	115	107	11	0	96	0	0	0	0	0
U. New Haven	480	8	17	107	8	4	95	0	0	0	0	0
Troy U.	483	ne	ne	103	18	11	57	0	0	2	6	9
Jackson State U.	484	493	103	102	0	0	102	0	0	0	0	0
U. South Carolina, Aiken	485	20	336	101	11	0	2	19	0	0	0	69
Gettysburg C.	486	132	139	100	7	7	0	59	0	0	27	0
U. Northern Iowa	486	37	27	100	0	0	4	4	0	3	0	89
California State U., Channel Islands	488	78	55	98	0	54	0	42	0	0	0	2
Eastern Kentucky U.	488	138	150	98	1	3	2	0	0	0	0	92
Oakland U.	488	1,856	776	98	27	0	48	10	0	1	1	11
Skidmore C.	491	133	88	96	8	0	2	0	0	12	18	56
Midwestern State U.	492	ne	ne	89	28	0	16	14	0	0	20	11
U. Wisconsin-Oshkosh	492	83 i	85 i	89 i	12 i	3 i	38 i	6 i	3 i	7 i	2 i	18 i
Sonoma State U.	494	ne	ne	86	5	5	0	16	0	0	9	51
Columbus State U.	495	ne	ne	79	1	5	70	0	0	0	3	0
Augusta U.	496	38	106	75	0	12	0	0	0	0	22	41
C. New Jersey	496	82	ne	75	0	1	6	67	0	0	1	0
California State U., Stanislaus	498	23	42	74	54	0	1	5	0	0	12	2
U. Puget Sound	499	ne	ne	72	2	5	0	61	0	0	4	0
Ithaca C.	500	ne	ne	70	0	7	2	9	0	0	22	30
Pennsylvania State U., Harrisburg	501	32	308	68	13	0	42	0	0	13	0	0
Bates C.	502	127	61	66	0	0	7	33	0	0	26	0
Harvey Mudd C.	502	73	61	66	0	0	0	66	0	0	0	0
Oregon Health and Science U.	504	32	0	64	0	0	0	0	64	0	0	0
Andrews U.	505	ne	78	63	0	0	0	2	0	0	0	61
Eastern Washington U.	506	84	53	61	0	0	15	0	0	0	0	46

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																					
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
U. of the Incarnate Word	506	281		372		61		0		0		0		0		0		0		0		61	
Black Hills State U.	508	653		777		60		0		0		7		0		0		0		0		53	
Biola U.	509	59	i	58	i	57	i	14	i	3	i	15	i	8	i	5	i	3	i	2	i	7	i
CUNY, Medgar Evers C.	510	713		14		55		0		1		51		3		0		0		0		0	
Central Washington U.	511	16		18		54		0		0		0		54		0		0		0		0	
Calvin U.	512	144		56		53	i	0	i	0	i	0	i	50	i	0	i	3	i	0	i	0	i
Lipscomb U.	513	ne		ne		52	i	11	i	1	i	14	i	8	i	6	i	3	i	1	i	8	i
Xavier U. Louisiana	513	198		153		52		0		0		52		0		0		0		0		0	
U. Wisconsin-Stevens Point	515	45	i	48	i	51		0		0		0		1		0		0		8		42	
SUNY, Buffalo State	516	23		115		45		0		0		2		0		0		0		0		43	
CUNY, York C.	517	ne		47		43		0		0		0		0		0		0		0		43	
U. Wisconsin-Eau Claire	517	91		62		43		0		0		0		0		0		0		0		43	
Saginaw Valley State U.	519	56		68		42		23		0		1		5		1		2		2		8	
Dillard U.	520	0		42		36		0		0		0		0		0		0		0		36	
Oklahoma State U., Center for Health Sciences	520	111		69		36		13		0		23		0		0		0		0		0	
Oberlin C.	522	193		85		35		0		0		0		20		0		0		15		0	
U. Hawaii, Hilo	522	85		46		35		0		0		0		0		0		0		0		35	
SUNY, Oswego	524	29		102		34		15		0		10		4		0		0		5		0	
SUNY, C. Plattsburgh	525	0		80		33		0		0		33		0		0		0		0		0	
Norfolk State U.	526	37		115		32		0		0		27		0		0		0		0		5	
Providence C.	526	29		26		32		0		0		1		9		0		0		8		14	
Pennsylvania State U., Behrend	528	143		146		30		0		7		0		12		0		11		0		0	
U. Detroit Mercy	528	28		40		30		0		0		0		5		25		0		0		0	
New Jersey City U.	530	4,956		4,796		28		8		0		5		4		0		0		0		11	
Alaska Pacific U.	531	219		147		27		0		0		27		0		0		0		0		0	
Murray State U.	532	12		34		26		18		0		1		0		0		0		0		7	
U. Ana G. Mendez, Gurabo	533	191		122		24		24		0		0		0		0		0		0		0	
Wheaton C., Wheaton	533	595		110		24		0		0		0		24		0		0		0		0	
Thomas Jefferson U.	535	0		0		23		0		0		0		0		0		0		0		23	
U. of the Pacific	535	786		691		23		0		0		0		13		0		0		0		10	

TABLE 57

Higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Furman U.	537	49	0	22	0	0	11	10	0	0	0	1
Morehead State U.	538	211	404	21	0	0	21	0	0	0	0	0
Florida Polytechnic U.	539	ne	25	20	20	0	0	0	0	0	0	0
Vassar C.	540	0 i	0	15	0	0	5	6	0	0	4	0
U. Arkansas, Pine Bluff	541	35	19	13	0	0	0	0	0	0	0	13
U. Louisiana, Monroe	541	0	5	13	0	0	0	0	0	0	0	13
Kenyon C.	543	66	24	12	0	0	0	0	0	0	4	8
Touro U.	543	0	0	12	0	0	0	0	0	0	0	12
Bradley U.	545	73	10	11	0	2	3	0	0	0	5	1
U. North Carolina, general administration	546	64	0	10	3	0	0	0	0	0	0	7
U. of the Virgin Islands	547	104	568	9	0	0	0	0	0	0	9	0
West Virginia School of Osteopathic Medicine	548	ne	ne	8	0	0	8	0	0	0	0	0
U. Alaska, Southeast	549	1	0	7	7	0	0	0	0	0	0	0
SUNY, C. Brockport	550	25	18	6	0	0	6	0	0	0	0	0
U. Wisconsin-Superior	550	8	0	6	6	0	0	0	0	0	0	0
U. New England	552	32	0	5	0	0	1	1	0	0	0	3
Arkansas State U., Jonesboro	553	7	39	3	1	0	0	0	0	0	1	1
Benedict C.	554	0	0	2	0	0	0	0	0	0	0	2
Northeast Ohio Medical U.	554	13	9	2	0	0	0	1	0	0	0	1
All other surveyed institutions	-	57,339	6,029	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the

Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[c] Johns Hopkins University includes the Applied Physics Laboratory (APL), with zero imputed for total non-S&E R&D expenditures in FY 2020. Total expenditures by field for Johns Hopkins University are flagged as imputed because APL was unable to distribute a portion of institutionally funded R&D by field.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
All institutions	-	1,247,703	1,242,692	1,244,035	74,126	40,830	667,043	54,155	26,697	140,836	15,140	225,208
U. Washington, Seattle	1	33,703	34,540	37,000	0	4,125	18,626	1,265	370	10,982	32	1,600
Ohio State U.	2	35,400	32,570	33,733	330	170	10,898	545	37	3,398	331	18,024
U. Kansas	3	25,111	28,015	33,020	122	15	22,555	410	0	8,988	6	924
Stanford U.	4	25,572	25,269	25,472	153	618	24,491	188	0	0	0	22
Vanderbilt U. and Vanderbilt U. Medical Center	5	15,026	22,034	21,966	63	0	21,837	24	0	0	0	42
U. Texas, Austin	6	18,177	20,430	21,951	1,096	1,595	14,673	155	0	3,576	0	856
U. Florida	7	14,792	18,905	21,625	3,018	760	12,122	128	97	0	128	5,372
Florida State U.	8	17,749	18,312	21,067	84	1,192	18,931	175	15	474	15	181
U. North Carolina, Chapel Hill	9	19,588	18,990	20,294	752	469	7,725	16	0	9,241	45	2,046
U. Maryland[a]	10	na	18,754	20,102	539	0	2,639	1,964	185	8,295	226	6,254
Washington State U.	11	19,904	21,558	19,600	1,071	1,599	12,654	188	292	20	0	3,776
U. Missouri, Columbia	12	11,865	11,488	19,161	0	283	14,641	37	46	726	4	3,424
Columbia U. in the City of New York	13	12,546	12,304	18,374	643	0	4,516	827	0	12,212	0	176
U. Virginia, Charlottesville	14	19,007	19,322	17,919	0	0	13,203	3,199	527	0	70	920
Virginia Commonwealth U.	15	17,592	16,900	17,485	0	5	16,063	109	0	490	71	747
U. South Florida, Tampa	16	16,011	17,220	16,872	465	142	15,318	6	0	475	80	386
U. Central Florida	17	8,035	8,459	16,749	530	1,270	3,525	129	0	978	15	10,302
Texas A&M U., College Station and Health Science Center	18	16,997	17,219	16,093	698	25	14,618	385	35	0	2	330
Arizona State U.	19	9,589	13,557	15,773	2,383	545	7,276	391	1,038	4,126	14	0
U. California, Irvine	20	8,991	9,860	15,767	660	0	15,045	62	0	0	0	0
U. Pennsylvania	21	16,517	14,612	15,517	716	3,479	5,894	923	477	0	44	3,984
U. Colorado Boulder	22	14,947	14,982	15,393	1,385	106	13,535	162	0	1	0	204
Georgia State U.	23	16,409	15,303	15,364	249	3,979	7,469	2	411	3,254	0	0
New York U.	24	20,698	20,713	15,252	131	0	11,222	0	76	1,867	71	1,885
U. Oregon	25	15,165	16,171	15,096	78	427	11,982	944	65	0	0	1,600
Washington U., Saint Louis	26	9,358	11,623	14,855	58	0	256	140	0	14,401	0	0
U. Wisconsin-Madison	27	18,382	14,831	14,656	64	161	13,207	316	0	0	9	899
U. Louisiana, Lafayette	28	8,108	4,059	14,125	4,493	0	5,311	4,321	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas State U.	29	18,016	16,111	13,652	40	0	5,669	38	7,796	0	0	109
Purdue U., West Lafayette	30	21,309	18,643	12,964	847	54	4,598	194	0	0	112	7,159
U. California, Los Angeles	31	18,090	12,974	12,811	125	1,832	10,326	211	50	0	101	166
U. Southern California	32	13,812	12,636	12,592	1,065	358	2,713	145	754	5,513	1,729	315
U. Massachusetts, Boston	33	13,560	8,966	12,568	0	0	12,298	166	0	0	104	0
Michigan State U.	34	12,944	13,495	11,863	396	1,554	7,796	574	0	250	0	1,293
U. Illinois, Urbana-Champaign	35	13,978	13,200	11,348	443	88	2,693	225	23	2,225	61	5,590
U. Baltimore	36	5,789	7,794	10,724	0	0	37	0	571	0	0	10,116
U. Minnesota, Twin Cities	37	9,006	10,651	10,678	733	313	7,610	763	293	300	0	666
U. West Florida	38	7,485	10,296	10,307	8,460	0	1,049	16	0	20	0	762
Colorado State U., Fort Collins	39	11,392	8,309	10,237	102	626	1,536	259	95	98	0	7,521
U. Denver	40	2,775	8,855	10,202	17	22	2,708	0	18	7,437	0	0
U. North Carolina, Greensboro	41	6,575	7,396	9,868	56	0	7,922	0	0	600	320	970
Georgia Institute of Technology	42	8,560	7,525	9,624	315	1,173	174	524	0	0	4,982	2,456
Montana State U., Bozeman	43	7,819	8,000	8,799	97	0	1,015	8	0	0	0	7,679
Temple U.	44	13,807	11,472	8,036	1,067	361	4,935	149	371	965	0	188
Western Michigan U. and Homer Stryker M.D. School of Medicine	45	3,880	8,745	7,813	0	0	7,813	0	0	0	0	0
Clemson U.	46	7,117	8,745	7,765	21	8	589	22	0	0	0	7,125
U. Michigan, Ann Arbor	47	7,965	6,897	7,501	423	0	4,199	200	35	2,068	203	373
U. Utah	48	5,258	20,428	7,394	3	1,925	0	7	0	0	860	4,599
Harvard U.	49	8,862	7,282	7,290	0	39	6,631	258	362	0	0	0
Rutgers, State U. New Jersey, New Brunswick	50	20,089	10,578	7,257	865	142	2,283	326	0	2,144	4	1,493
California Institute of Technology	51	11,686	8,352	7,133	0	0	0	5,383	0	0	0	1,750
U. Illinois, Chicago	52	7,518	7,677	7,040	0	0	2,613	1,181	0	870	0	2,376
U. South Carolina, Columbia	53	7,654	14,940	6,830	432	13	872	261	0	982	73	4,197
Pennsylvania State U., University Park and Hershey Medical Center	54	8,025	9,288	6,685	834	47	4,989	807	0	0	8	0
Portland State U.	55	7,797	6,754	6,563	0	0	1,528	84	5	1,416	0	3,530
U. Pittsburgh, Pittsburgh	56	6,037	6,179	6,558	1,188	0	3,994	117	0	296	0	963
Oregon State U.	57	5,451	5,790	5,848	0	0	0	94	0	0	0	5,754

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Boston C.	58	2,867	4,458	5,825	0	0	2,383	0	0	3,442	0	0
U. Alabama, Tuscaloosa	59	2,787	4,683	5,819	1,140	66	1,577	9	0	2,993	0	34
U. New Hampshire	59	7,953	5,642	5,819	1,087	0	3,680	345	0	707	0	0
Boston U.	61	20,607	4,841	5,785	283	15	3,361	21	0	2,105	0	0
Florida International U.	62	5,124	6,845	5,608	1,983	0	3,470	52	0	0	2	101
Naval War C.	63	0	4,381	5,220	0	0	0	0	0	0	0	5,220
Indiana U., Bloomington	64	3,841	4,470	5,180	232	0	2,489	278	0	0	30	2,151
Illinois State U.	65	3,570	5,437	5,080	0	0	4,838	0	0	21	0	221
William & Mary	66	5,667	4,871	4,976	94	0	4,522	2	223	0	0	135
U. Colorado Denver and Anschutz Medical Campus	67	5,691	5,122	4,932	324	0	3,413	167	0	169	0	859
U. California, Berkeley	68	4,943	6,273	4,886	292	1,350	2,885	137	222	0	0	0
Iowa State U.	69	2,438	2,325	4,759	379	11	1,015	858	0	0	1,644	852
George Mason U.	70	5,166	4,930	4,738	229	1,060	2,786	141	0	0	0	522
U. Chicago	71	5,351	4,939	4,713	138	0	1,371	506	0	2,658	0	40
U. Louisville	72	3,230	4,142	4,625	120	230	292	0	521	2,929	0	533
Drexel U.	73	2,703	3,321	4,611	27	0	2,183	0	0	0	37	2,364
Wayne State U.	74	3,227	3,694	4,601	0	0	369	16	14	2,870	57	1,275
Massachusetts Institute of Technology	75	3,078	3,524	4,557	7	0	2,476	1,006	425	54	79	510
Northeastern U.	76	5,268	4,099	4,521	831	314	2,449	28	629	0	82	188
U. Delaware	77	4,991	4,369	4,460	315	365	3,779	1	0	0	0	0
U. South Florida, Saint Petersburg	78	2,178	2,095	4,415	0	0	4,401	14	0	0	0	0
SUNY, U. Buffalo	79	3,370	4,525	4,326	103	0	3,914	302	0	0	0	7
Syracuse U.	80	6,493	5,660	4,323	1,040	180	751	30	2,046	0	0	276
U. Notre Dame	81	4,038	4,076	4,287	43	0	0	81	0	0	0	4,163
Rensselaer Polytechnic Institute	82	3,735	3,203	4,216	50	21	0	0	0	0	78	4,067
North Carolina State U.	83	4,818	4,474	4,146	0	0	2,678	1,468	0	0	0	0
U. Oklahoma, Norman and Health Science Center	84	6,847	5,215	4,088	251	770	749	1	40	52	0	2,225
U. Connecticut	85	5,026	5,724	4,085	255	117	1,294	59	7	905	21	1,427
U. Iowa	86	2,901	3,924	4,022	179	0	2,490	382	336	635	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Rochester Institute of Technology	87	3,298	4,164	4,013	0	0	3,297	236	0	0	342	138
U. Georgia	88	3,617	3,320	4,004	177	45	1,846	458	0	0	0	1,478
U. California, Davis	89	5,195	4,106	3,897	92	0	3,293	308	11	0	193	0
Northwestern U.	90	4,836	4,560	3,696	1,049	1,137	1,025	176	309	0	0	0
Cornell U.	91	5,552	3,147	3,675	131	490	0	180	25	0	279	2,570
U. Massachusetts, Amherst	92	7,099	7,296	3,624	303	0	1,333	9	68	0	117	1,794
East Carolina U.	93	957	1,884	3,585	23	0	2,842	593	0	25	0	102
George Washington U.	94	3,356	3,135	3,507	738	0	2,165	264	16	0	0	324
Wichita State U.	95	2,184	3,001	3,498	25	0	0	115	68	119	0	3,171
Old Dominion U.	96	3,792	3,722	3,426	60	0	3,350	16	0	0	0	0
New Jersey Institute of Technology	97	13,686	2,258	3,415	272	0	2,048	46	0	0	0	1,049
U. North Florida	98	2,493	2,774	3,401	996	0	2,405	0	0	0	0	0
U. Montana, Missoula	99	2,733	2,647	3,322	0	48	1,266	14	0	1,946	0	48
U. Arizona	100	3,915	3,965	3,186	0	0	2,356	0	186	0	0	644
North Carolina Agricultural and Technical State U.	101	2,662	2,939	3,168	915	0	718	0	0	0	0	1,535
Naval Postgraduate School	102	2,989	5,190	3,161	1,871	128	659	0	0	0	0	503
St. Edward's U.	103	5,693	1,607	3,132	400	100	2,050	302	30	0	0	250
Florida A&M U.	104	2,561	3,245	3,114	122	0	968	0	0	0	0	2,024
Rhode Island C.	105	2,668	2,606	3,026	187	0	2,470	0	0	369	0	0
Kansas State U.	106	2,706	2,391	2,936	31	0	1,393	205	0	0	1	1,306
U. Alabama, Birmingham	107	2,959	2,493	2,904	84	0	226	0	0	124	0	2,470
Tufts U.	108	10,930	10,542	2,847	0	0	2,322	21	0	0	0	504
U. Cincinnati	109	3,802	3,236	2,840	52	0	1,730	58	0	0	0	1,000
CUNY, John Jay C. of Criminal Justice	110	2,947	3,817	2,825	0	0	50	0	2,671	0	0	104
U. Kentucky	111	2,704	3,085	2,816	462	191	480	17	0	755	0	911
U. Texas, Arlington	112	1,964	2,566	2,793	29	0	370	36	0	440	0	1,918
U. Houston	113	1,667	1,675	2,792	52	22	637	0	24	1,679	0	378
U. New Mexico	114	2,637	3,075	2,745	627	1	1,108	122	68	276	0	543
Johns Hopkins U.[b]	115	4,392	2,759	2,673	0	0	0	2,544	0	0	0	129

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Florida Gulf Coast U.	116	2,400	2,829	2,665	560	0	2,031	3	38	0	0	33
American U.	117	1,776	1,467	2,632	515	23	124	0	1,850	0	0	120
Yale U.	118	3,216	3,285	2,595	1,866	0	40	636	0	0	30	23
U. Nebraska, Lincoln	119	1,487	1,747	2,505	170	0	1,111	637	19	0	0	568
Brown U.	120	3,068	2,611	2,496	0	0	2,430	24	12	0	0	30
CUNY, Hunter C.	121	1,713	2,297	2,387	0	0	1,496	6	0	885	0	0
Sam Houston State U.	122	0	1,407	2,320	0	0	2,320	0	0	0	0	0
California State U., San Bernardino	123	2,484	2,660	2,312	0	0	2,312	0	0	0	0	0
U. California, Riverside	124	1,324	1,485	2,268	2	0	2,168	97	0	0	0	1
U. Arkansas, Fayetteville	125	4,649	4,004	2,258	9	2	1,478	0	327	34	20	388
Salisbury U.	126	1,436	1,632	2,209	284	0	1,584	10	0	288	0	43
West Virginia U.	127	3,009	3,033	2,202	0	39	704	76	4	4	0	1,375
Southern Methodist U.	128	1,871	2,650	2,193	0	0	1,958	235	0	0	0	0
Seton Hall U.	129	2,827	3,172	2,186	0	0	2,186	0	0	0	0	0
U. Memphis	130	1,703	1,296	2,136	220	6	1,047	14	0	484	54	311
U. North Dakota	131	2,192	2,465	2,132	0	62	254	0	0	24	0	1,792
Rice U.	132	568	479	2,093	184	0	1,909	0	0	0	0	0
U. California, Santa Barbara	133	3,323	2,948	2,078	0	83	1,860	135	0	0	0	0
San Diego State U.	134	1,580	1,920	2,068	134	4	1,656	49	0	223	0	2
San Jose State U.	135	2,294	2,071	2,041	1,304	0	0	26	0	102	0	609
Northern Illinois U.	136	1,978	1,905	2,005	0	0	219	0	0	0	105	1,681
National Defense U.	137	2,057	2,076	2,000	0	0	2,000	0	0	0	0	0
Brigham Young U., Provo	138	2,525	1,924	1,843	147	0	24	1,546	0	0	0	126
Bowling Green State U.	139	2,781	1,974	1,842	0	0	1,842	0	0	0	0	0
U. Alaska, Fairbanks	139	1,436	1,559	1,842	52	0	1,716	0	0	0	0	74
Virginia Polytechnic Institute and State U.	141	4,757	3,399	1,840	61	112	1,193	74	0	0	0	400
U. Texas, San Antonio	142	881	1,602	1,822	0	24	1,613	28	0	0	0	157
Boise State U.	143	1,761	2,139	1,793	43	0	1,739	11	0	0	0	0
Texas Tech U.	144	6,854	5,279	1,790	449	469	690	58	0	0	70	54
Duke U.	145	1,080	1,161	1,723	776	0	87	227	311	0	4	318

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Colorado School of Mines	146	850	1,010	1,685	36	0	0	0	0	0	0	1,649
U. Tennessee, Knoxville[c]	147	1,748	1,885	1,661	649	179	305	71	10	0	10	437
Miami U.	148	1,703	2,075	1,644	283	0	1,154	0	0	0	0	207
U. North Texas, Denton	149	1,512	1,251	1,634	453	91	649	177	0	0	0	264
U. Idaho	150	3,697	3,067	1,632	0	0	1,592	4	0	0	0	36
U. Texas, El Paso	151	1,138	1,150	1,631	19	2	664	76	0	867	3	0
U. Maine	152	142	1,217	1,621	0	85	105	413	0	80	0	938
Kent State U.	153	853	774	1,598	0	0	1,111	39	0	30	0	418
U. Washington, Bothell	154	2,003	1,553	1,555	78	7	1,431	0	0	0	0	39
Mississippi State U.	155	647	1,192	1,523	18	0	1,248	0	0	0	0	257
Indiana U.-Purdue U., Indianapolis	156	763	1,677	1,520	4	18	642	125	0	54	0	677
Rutgers, State U. New Jersey, Newark	157	2,387	1,334	1,471	829	0	0	32	20	0	3	587
Oklahoma State U., Stillwater	158	3,369	1,123	1,454	174	143	430	86	0	0	1	620
U. Mississippi	159	1,015	1,134	1,438	0	52	567	0	819	0	0	0
U. Rhode Island	160	2,891	3,167	1,382	283	311	593	38	0	0	0	157
U. Nebraska, Omaha	161	896	1,152	1,370	558	0	789	0	0	0	0	23
Texas A&M U.-Kingsville	162	1,819	1,545	1,357	0	0	1,332	0	0	0	0	25
Mills C.	163	928	840	1,341	0	0	1,341	0	0	0	0	0
California State U., East Bay	164	ne	ne	1,330	0	0	1,330	0	0	0	0	0
Stevens Institute of Technology	165	760	639	1,320	454	0	0	0	0	0	636	230
U. North Carolina, Charlotte	166	1,020	1,282	1,283	357	0	658	17	0	28	0	223
U. Wyoming	167	57	425	1,275	0	0	210	0	0	0	0	1,065
U. Massachusetts, Lowell	168	1,104	1,361	1,267	27	0	997	212	0	0	0	31
Winston-Salem State U.	169	340	543	1,264	0	0	1,195	0	0	0	0	69
Lehigh U.	170	2,185	2,272	1,242	6	0	1,136	29	0	0	0	71
California State U., San Marcos	171	1,124	1,127	1,237	12	0	502	0	0	0	0	723
U. Maryland, Baltimore County	172	588	2,253	1,213	1,079	0	38	0	0	0	0	96
Jacksonville State U.	173	2,595	2,245	1,186	0	0	1,186	0	0	0	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	174	707	628	1,179	218	0	58	422	0	0	425	56
Middle Tennessee State U.	175	185	901	1,166	0	9	1,096	61	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Emory U.	176	676	946	1,149	0	168	575	191	100	0	66	49
Johnson C. Smith U.	177	1,009	996	1,143	0	0	1,043	0	0	0	0	100
U. Houston-Downtown	178	1,133	1,307	1,118	0	0	1,118	0	0	0	0	0
U. Rochester	179	1,357	1,226	1,087	115	0	951	0	0	0	12	9
U. Southern Mississippi	180	1,484	1,237	1,079	67	0	0	85	0	0	0	927
U. Nevada, Las Vegas	181	1,016	1,209	1,065	23	0	952	15	0	0	0	75
Montclair State U.	182	563	1,114	1,016	0	0	939	21	0	48	0	8
Virginia State U.	183	841	1,150	1,012	0	0	1,012	0	0	0	0	0
Erikson Institute	184	1,822	753	1,006	0	0	1,006	0	0	0	0	0
Fordham U.	185	763	1,047	997	19	6	495	9	47	397	0	24
Lamar U.	186	100	1,037	989	188	0	702	0	0	0	0	99
U. Nevada, Reno	187	2,756	1,936	966	762	38	0	0	12	44	110	0
SUNY, Stony Brook U.	188	1,439	1,360	952	0	158	292	88	0	316	0	98
Gallaudet U.	189	117	1,085	942	0	665	21	256	0	0	0	0
Louisiana State U., Baton Rouge	190	856	1,223	920	0	155	270	150	0	31	3	311
New Mexico State U.	191	592	839	915	0	0	852	9	0	0	0	54
Florida Atlantic U.	192	695	617	908	0	0	0	0	0	7	0	901
North Carolina Central U.	193	2,219	1,268	904	0	0	694	0	101	109	0	0
Southern Illinois U., Edwardsville	194	302	610	903	0	0	216	307	0	0	0	380
Texas A&M U.-Corpus Christi	195	1,121	1,320	896	0	0	669	0	0	0	0	227
Northern Arizona U.	196	511	824	895	0	76	803	0	0	16	0	0
U. Dayton	197	1,870	783	886	0	0	512	0	0	198	0	176
Pace U.	198	1,507	1,042	877	0	0	877	0	0	0	0	0
Pacific U.	198	1,078	1,186	877	0	0	851	26	0	0	0	0
SUNY, U. Albany	198	2,890	1,484	877	119	89	483	36	0	101	0	49
U. Maryland Center for Environmental Science	201	732	903	876	0	0	876	0	0	0	0	0
Winthrop U.	202	977	804	866	0	0	822	44	0	0	0	0
U. Nebraska, central administration	203	639	1,163	858	0	0	0	0	0	0	0	858
Case Western Reserve U.	204	2,242	1,579	838	315	0	436	0	72	0	0	15
William Paterson U.	205	447	966	824	0	0	824	0	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Texas Woman's U.	206	1,096	1,187	818	0	0	818	0	0	0	0	0
Seattle U.	207	771	733	816	0	0	816	0	0	0	0	0
Princeton U.	208	646	706	812	0	0	0	347	0	0	343	122
California State U., Sacramento	209	772	563	801	0	0	646	51	0	43	0	61
U. North Carolina, Wilmington	210	731	769	799	340	0	447	11	0	0	0	1
California State U., Northridge	211	2,070	1,396	783	70	0	389	55	45	0	0	224
U. Texas, Dallas	212	1,036	1,023	758	52	0	0	706	0	0	0	0
Worcester Polytechnic Institute	213	551	820	754	369	0	74	0	0	0	0	311
U. California, San Diego	214	1,212	787	753	83	12	185	473	0	0	0	0
Wesleyan U.	215	363	582	746	0	0	678	0	0	0	68	0
Loyola U., Chicago	216	863	643	741	0	0	95	0	11	635	0	0
Utah State U.	217	871	592	723	321	0	0	0	26	0	0	376
Bryn Mawr C.	218	977	749	698	0	0	0	672	0	26	0	0
U. Alabama, Huntsville	219	335	522	689	178	0	432	79	0	0	0	0
South Carolina State U.	220	1,092 i	649	673 i	124 i	0 i	549 i	0 i	0 i	0 i	0 i	0 i
U. California, Santa Cruz	221	979	1,034	655	0	0	174	456	0	0	25	0
U. of the District of Columbia	222	0	757	644	0	0	0	0	0	0	0	644
U. Wisconsin-Milwaukee	223	264	433	641	0	0	498	64	0	0	2	77
Northeastern Illinois U.	224	565	400	640	0	0	547	0	0	0	0	93
James Madison U.	225	239	642	636	0	0	36	63	0	537	0	0
U. Arkansas, Little Rock	226	822	574	629	0	0	566	0	63	0	0	0
Brandeis U.	227	1,261	1,142	625	0	0	32	0	0	0	0	593
Auburn U., Auburn	228	770	673	624	0	0	307	150	0	0	0	167
U. Northern Colorado	229	526	448	620	0	0	620	0	0	0	0	0
La Sierra U.	230	580	608	614	0	0	614	0	0	0	0	0
U. Hawaii, Manoa	231	632	384	603	0	194	28	29	0	100	0	252
Bowie State U.	232	739	1,035	599	259	0	0	0	0	0	0	340
CUNY, Lehman C.	233	301	1,161	583	0	150	433	0	0	0	0	0
California State U., Chico	234	9	505	577	32	0	545	0	0	0	0	0
U. North Carolina, Asheville	235	133	584	557	54	56	440	0	0	0	0	7
Florida Institute of Technology	236	178	309	551	153	0	0	0	0	0	0	398
San Francisco State U.	237	1,042	526	548 i	0 i	22 i	514 i	0 i	0 i	0 i	6 i	6 i

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Georgetown U.	238	1,199	1,046	544	135	224	0	67	118	0	0	0
Chapman U.	239	277	379	537	0	407	0	0	105	0	0	25
SUNY, Binghamton U.	239	428	587	537	194	0	151	0	0	0	0	192
Cleveland State U.	241	481	493	522	0	0	501	0	0	21	0	0
CUNY, Queens C.	242	508	595	518	0	0	518	0	0	0	0	0
North Dakota State U.	243	637	629	505	22	0	435	0	0	0	0	48
U. Texas Rio Grande Valley	244	22	309	503	25	0	370	0	0	0	0	108
U. California, Merced	245	344	337	495	0	0	0	0	0	0	0	495
Howard U.	246	1,029	556	471	0	88	34	0	0	349	0	0
U. South Alabama	247	526	564	466	0	0	337	0	0	0	0	129
Elizabeth City State U.	248	0	ne	463	0	0	0	0	0	0	0	463
U. of Mary Washington	249	372	449	453	141	0	80	202	0	0	0	30
Villanova U.	250	13	129	445	0	0	0	0	0	0	0	445
U. Massachusetts, Dartmouth	251	561	396	440	0	0	440	0	0	0	0	0
Hampton U.	252	501	447	436	0	0	219	0	0	0	0	217
Pepperdine U.	253	424	515	432	0	0	328	0	104	0	0	0
Western U. of Health Sciences	254	193	462	431	0	0	431	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	255	529	563	429	0	0	429	0	0	0	0	0
Grambling State U.	256	1,028	508	428	0	42	328	0	0	0	0	58
Langston U.	257	328 i	291	420	0	0	266	0	0	0	0	154
Wellesley C.	258	279	155	417	0	0	305	0	0	0	0	112
California Polytechnic State U., San Luis Obispo	259	300	146	413	30	74	246	58	0	0	0	5
U. Miami	260	1,190	530	410	0	0	410	0	0	0	0	0
Salish Kootenai C.	261	776	485	408	0	0	408	0	0	0	0	0
Duquesne U.	262	818	236	402	260	0	91	0	43	0	0	8
Liberty U.	263	ne	0	400	400	0	0	0	0	0	0	0
U. Missouri, Kansas City	264	200	224	399	0	0	399	0	0	0	0	0
U. Colorado Colorado Springs	265	360	320	398	0	0	93	0	0	0	0	305
U. Oklahoma, Tulsa	266	74	388	394	0	0	322	0	0	31	0	41
Hofstra U.	267	215	381	391	0	0	380	11	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Central Connecticut State U.	268	ne	212	383	0	0	383	0	0	0	0	0
Stephen F. Austin State U.	269	457	35	373	0	0	344	0	0	24	0	5
U. North Georgia	270	815	415	359	0	0	167	192	0	0	0	0
U. Guam	271	172	235	358	0	0	358	0	0	0	0	0
U. Toledo	271	267	471	358	19	0	196	43	0	47	0	53
CUNY, Graduate Center	273	279	224	355	0	0	355	0	0	0	0	0
U. San Diego	274	35	17	350	0	0	238	60	52	0	0	0
Bucknell U.	275	63	361	346 i	0 i	0 i	0 i	346 i	0 i	0 i	0 i	0 i
U.S. Military Academy	276	7,080	4,096	338	0	0	30	291	17	0	0	0
Albany State U.	277	190	162	330	0	0	330	0	0	0	0	0
Texas Christian U.	278	887	655	328	28	0	300	0	0	0	0	0
New Mexico Institute of Mining and Technology	279	123	93	324	39	0	285	0	0	0	0	0
St. Cloud State U.	280	35	218	318	0	0	318	0	0	0	0	0
Northwest Indian C.	281	388	319	316 i	0 i	0 i	52 i	0 i	0 i	0 i	0 i	264 i
Indiana State U.	282	298	369	314	0	0	314	0	0	0	0	0
C. Charleston	283	723	706	306	3	0	197	23	0	0	13	70
U. Missouri, Saint Louis	283	475	300	306	5	0	295	6	0	0	0	0
U. Vermont	285	4	27	305	0	0	305	0	0	0	0	0
U. Puerto Rico, Rio Piedras	286	202	273	304	0	0	54	8	0	0	0	242
U.S. Naval Academy	287	0	140	296	0	0	0	296	0	0	0	0
California State U., Los Angeles	288	56	200	292	0	2	290	0	0	0	0	0
West Texas A&M U.	289	225	287	289	0	0	31	0	0	0	0	258
Western Kentucky U.	290	302	263	288	14	0	99	175	0	0	0	0
Kennesaw State U.	291	1,037	761	287	0	0	272	0	0	0	0	15
Stonehill C.	292	ne	ne	281	0	0	281	0	0	0	0	0
Rowan U.	293	34	155	275	0	0	43	110	122	0	0	0
Saint Joseph's U.	294	89	112	272	0	0	272	0	0	0	0	0
Citadel Military C. South Carolina	295	ne	ne	266	4	0	262	0	0	0	0	0
CUNY, Brooklyn C.	295	131	255 i	266	0	2	264	0	0	0	0	0
Michigan Technological U.	297	240	221	260	0	0	249	11	0	0	0	0
Catholic U. of America	298	326	234	259	0	0	0	0	101	92	0	66

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																			
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
Saint Louis U.	299	427		334		256		0		0		117		44		0		59		0		36	
Delaware State U.	300	968		243		253	i	127	i	0	i	0	i	76	i	0	i	50	i	0	i	0	i
Kean U.	300	ne		ne		253		0		0		253		0		0		0		0		0	
U.S. Air Force Academy	302	323		354		246		0		0		0		0		0		0		0		246	
California State U., Bakersfield	303	0		131		242		0		0		242		0		0		0		0		0	
CUNY, New York City C. of Technology	304	0		96		226		0		0		226		0		0		0		0		0	
Texas A&M U.-Commerce	305	203		56		222		0		0		60		0		0		0		0		162	
Tennessee State U.	306	955		513		220		4		0		133		0		0		0		0		83	
Clarkson U.	307	389		201		219		125		0		32		61		0		0		0		1	
California State Polytechnic U., Pomona	308	116		424		214		0		0		0		0		0		0		0		214	
Alabama A&M U.	309	437	i	309	i	211	i	13	i	5	i	115	i	7	i	5	i	20	i	2	i	44	i
Fayetteville State U.	310	194		194		209		209		0		0		0		0		0		0		0	
Stockton U.	310	0		4		209		162		0		0		12		0		0		35		0	
Doane U.	312	140		200		206	i	0	i	0	i	206	i	0	i	0	i	0	i	0	i	0	i
Marquette U.	312	221		179		206		0		0		0		0		0		0		0		206	
Roger Williams U.	314	198		307		201		0		0		158		0		43		0		0		0	
Willamette U.	315	65		114		179		0		0		122		0		0		0		0		57	
U. Central Oklahoma	316	79		180		178	i	0	i	0	i	52	i	0	i	0	i	0	i	0	i	126	i
U. Washington, Tacoma	317	707		357		176		0		0		145		0		0		22		0		9	
Reed C.	318	0		0		171		0		0		0		171		0		0		0		0	
California State U., Long Beach	319	317		199		168		0		66		70		0		0		0		0		32	
Baylor U.	320	33		70		167		0		0		0		0		0		89		6		72	
Louisiana Tech U.	320	91		261		167		166		0		1		0		0		0		0		0	
Smith C.	320	17		5		167		0		0		97		70		0		0		0		0	
U. Alaska, Anchorage	323	1,067		554		162		14		1		117		0		0		0		0		30	
Davidson C.	324	75		78		157		0		0		0		0		0		0		0		157	
Idaho State U.	325	344		325		156		0		0		112		9		0		0		0		35	
Embry-Riddle Aeronautical U.	326	77		80		151		50		0		0		0		0		0		0		101	
West Chester U. Pennsylvania	327	246		11		149		55		0		87		0		0		7		0		0	
Cold Spring Harbor Laboratory	328	0		0		147		0		0		0		147		0		0		0		0	

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Kettering U.	329	261	81	145	145	0	0	0	0	0	0	0
Carnegie Mellon U.	330	0	51	144	80	0	0	64	0	0	0	0
South Dakota State U.	330	116	153	144	0	13	0	12	0	0	0	119
U. Tulsa	332	175	251	142	0	0	48	0	0	0	94	0
Southern Connecticut State U.	333	57	85	141	0	0	46	32	0	63	0	0
Creighton U.	334	120 i	152 i	139 i	8 i	5 i	71 i	10 i	4 i	22 i	3 i	16 i
Morehouse C.	334	166	67	139	0	0	0	0	0	0	130	9
U. South Dakota	336	177	55	135	73	0	27	0	0	35	0	0
Tennessee Technological U.	337	121	157	133	0	0	133	0	0	0	0	0
DePaul U.	338	36	133	132	0	0	132	0	0	0	0	0
Western Washington U.	339	509	136	128	0	0	0	0	64	0	0	64
U. New Orleans	340	12	81	127	0	0	1	126	0	0	0	0
Barnard C.	341	200	170	120	0	0	120	0	0	0	0	0
Weber State U.	342	ne	ne	118	0	0	107	0	0	0	0	11
Youngstown State U.	342	0	0	118	0	0	69	0	0	0	0	49
Wake Forest U.	344	332	263	116	0	30	38	48	0	0	0	0
Prairie View A&M U.	345	35	100	115	9	0	84	0	0	0	0	22
California State U., Fresno	346	44	3	113	0	0	100	0	0	0	0	13
Clark Atlanta U.	347	23	139	111	0	0	0	0	0	84	0	27
Lawrence Technological U.	348	22	10	109	0	0	38	69	0	0	0	2
Loyola Marymount U.	349	424	203	108	0	0	1	0	0	0	0	107
Ball State U.	350	279	322	107	10	0	33	0	17	0	0	47
Colorado C.	351	170	122	105	0	2	103	0	0	0	0	0
U. Southern Maine	352	125	276	103	0	0	12	0	0	0	0	91
Jackson State U.	353	395	103	102	0	0	102	0	0	0	0	0
Appalachian State U.	354	82	34	94	0	0	94	0	0	0	0	0
Illinois Institute of Technology	355	523	74	92	0	0	92	0	0	0	0	0
Western Carolina U.	355	46	86	92	0	0	4	0	0	88	0	0
SUNY, C. of Environmental Science and Forestry	357	19	111	91	0	0	0	0	0	0	91	0
U. Northern Iowa	358	0	0	89	0	0	0	0	0	0	0	89
Indiana U. Pennsylvania	359	0	37	88	0	33	27	28	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Morgan State U.	360	153	108	85	0	0	2	0	0	0	0	83
Hamilton C.	361	51	102	83	0	0	0	83	0	0	0	0
Eastern Michigan U.	362	385	164	78	48	1	29	0	0	0	0	0
Missouri State U.	362	18	169	78	0	0	0	0	0	0	0	78
St. Bonaventure U.	362	ne	ne	78	0	0	78	0	0	0	0	0
U. Massachusetts, central office	362	235	155	78	0	0	78	0	0	0	0	0
Ohio U.	366	449	349	77	0	22	0	22	0	0	0	33
Tulane U.	367	111	32	74	0	0	0	0	0	0	0	74
California State U., Dominguez Hills	368	282	126	73	0	0	69	0	0	0	0	4
Long Island U.	369	513	192	72	0	25	22	0	0	0	0	25
California Lutheran U.	370	ne	97	68	0	0	68	0	0	0	0	0
CUNY, City C.	370	464	90	68	0	0	21	0	0	0	47	0
Dickinson C.	370	ne	98	68	0	0	0	65	0	0	3	0
Texas Tech U., Health Sciences Center	373	69	83	66	0	0	38	0	0	0	0	28
U. Akron	374	190	169	65	0	0	64	0	0	0	1	0
New School	375	192	29	64	0	0	64	0	0	0	0	0
C. New Jersey	376	51	ne	63	0	0	3	60	0	0	0	0
Eastern Washington U.	377	84	53	61	0	0	15	0	0	0	0	46
U. Minnesota, Duluth	377	0	61	61	0	0	0	0	0	0	0	61
Colgate U.	379	0	0	60	0	0	0	60	0	0	0	0
New York Institute of Technology	380	62	63	57	0	0	57	0	0	0	0	0
U. Michigan, Flint	381	0	0	56	0	0	32	24	0	0	0	0
Troy U.	382	ne	ne	55	0	0	55	0	0	0	0	0
Wright State U.	383	285	66	54	0	0	3	0	0	0	0	51
Black Hills State U.	384	624	675	53	0	0	0	0	0	0	0	53
Xavier U. Louisiana	385	194	153	52	0	0	52	0	0	0	0	0
CUNY, Medgar Evers C.	386	501	0	50	0	0	50	0	0	0	0	0
Grand Valley State U.	387	0	0	48	0	0	0	0	0	0	0	48
Northern Kentucky U.	388	110	93	47	0	0	0	14	0	31	0	2
U. Central Arkansas	388	149	115	47	0	0	47	0	0	0	0	0

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																							
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
U. Wisconsin-Oshkosh	388	47	i	45	i	47	i	3	i	1	i	27	i	1	i	1	i	5	i	0	i	9	i
Texas A&M International U.	391	28		33		45		0		0		43		0		0		0		2		0	
U. Wisconsin-Platteville	392	ne		45	i	44	i	0	i	0	i	20	i	1	i	5	i	0	i	0	i	18	i
California State U., Channel Islands	393	15		0		40		0		40		0		0		0		0		0		0	
U. Richmond	393	0		30		40		0		40		0		0		0		0		0		0	
Franklin W. Olin C. of Engineering	395	47		51		38		0		0		38		0		0		0		0		0	
Dillard U.	396	0		0		36		0		0		0		0		0		0		0		36	
Santa Clara U.	397	72		67		35		35		0		0		0		0		0		0		0	
CUNY, C. Staten Island	398	245	i	301		33		0		0		0		33		0		0		0		0	
CUNY, York C.	398	ne		34		33		0		0		0		0		0		0		0		33	
Georgia Southern U.	400	47		15		31		5		0		12		2		0		0		0		12	
U. Wisconsin-Green Bay	400	20	i	29	i	31	i	2	i	1	i	17	i	1	i	0	i	3	i	1	i	6	i
Claremont McKenna C.	402	0		0		30		0		0		0		30		0		0		0		0	
Eastern Kentucky U.	402	36		0		30		0		0		0		0		0		0		0		30	
Rhode Island School of Design	402	47	i	31	i	30	i	0	i	0	i	18	i	5	i	0	i	0	i	0	i	7	i
Swarthmore C.	402	243		172		30		25		0		1		4		0		0		0		0	
Hope C.	406	12		12		29		0		0		29		0		0		0		0		0	
Northern Michigan U.	407	203		53		28		0		0		0		11		0		0		0		17	
Purdue U., Fort Wayne	407	7		68		28		0		0		0		28		0		0		0		0	
Texas Tech U., Health Sciences Center, El Paso	407	43		41		28		0		0		28		0		0		0		0		0	
Alaska Pacific U.	410	219		147		27		0		0		27		0		0		0		0		0	
Grinnell C.	410	47		38		27		0		0		27		0		0		0		0		0	
Norfolk State U.	410	35		111		27		0		0		27		0		0		0		0		0	
Purdue U., Northwest	410	1,278		980		27		0		0		0		0		0		0		5		22	
U. Detroit Mercy	414	0		28		25		0		0		0		0		25		0		0		0	
Calvin U.	415	31		25		24	i	0	i	0	i	0	i	24	i	0	i	0	i	0	i	0	i
Des Moines U.	415	36		40		24		0		0		24		0		0		0		0		0	
Thomas Jefferson U.	417	0		0		23		0		0		0		0		0		0		0		23	
Colby C.	418	25		35		22		0		0		0		22		0		0		0		0	
Central Michigan U.	419	9		0		21		0		0		0		0		0		0		0		21	

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018		2019		2020																			
						All non-S&E fields		Business management and business administration		Communication and communications technologies		Education		Humanities		Law		Social work		Visual and performing arts		Other	
U. Texas of the Permian Basin	419	0		ne		21		0		0		0		0		0		0		0		21	
Keck Graduate Institute	421	20	i	19	i	20	i	7	i	0	i	0	i	9	i	0	i	1	i	3	i	0	i
SUNY, C. Plattsburgh	421	0		55		20		0		0		20		0		0		0		0		0	
U. Michigan, Dearborn	421	107		128		20		0		0		20		0		0		0		0		0	
Western Illinois U.	421	16		9		20		0		0		20		0		0		0		0		0	
California State U., Fullerton	425	371		223		19		0		0		8		3		0		0		8		0	
Christopher Newport U.	426	1		0		18		0		0		0		0		0		0		0		18	
Murray State U.	426	0		32		18		18		0		0		0		0		0		0		0	
Morehead State U.	428	167		180		17		0		0		17		0		0		0		0		0	
Oklahoma State U., Center for Health Sciences	429	62		41		16		0		0		16		0		0		0		0		0	
CUNY, system office	430	0		894		15		0		0		0		0		0		0		0		15	
Babson C.	431	12		14		14		14		0		0		0		0		0		0		0	
Pennsylvania State U., Harrisburg	431	0		0		14		3		0		8		0		0		3		0		0	
U. of the Pacific	433	84		14		13		0		0		0		13		0		0		0		0	
Mercyhurst U.	434	ne		12	i	12	i	1	i	0	i	6	i	1	i	0	i	2	i	0	i	2	i
Touro U.	434	0		0		12		0		0		0		0		0		0		0		12	
Trinity U.	434	71		46		12		12		0		0		0		0		0		0		0	
U. Hartford	434	529		0		12		0		0		0		0		0		12		0		0	
Towson U.	438	0		3		11		0		0		11		0		0		0		0		0	
Biola U.	439	11	i	10	i	10	i	1	i	0	i	5	i	1	i	0	i	2	i	0	i	1	i
Lafayette C.	439	165		72		10		0		0		0		1		0		0		9		0	
Oakland U.	439	44		0		10		0		0		0		0		0		0		0		10	
U. North Carolina, general administration	439	0		0		10		3		0		0		0		0		0		0		7	
Lipscomb U.	443	ne		ne		9	i	0	i	0	i	4	i	1	i	1	i	2	i	0	i	1	i
U. of the Virgin Islands	443	104		542		9		0		0		0		0		0		0		9		0	
Marshall U.	445	65		38		8		8		0		0		0		0		0		0		0	
U. Wisconsin-La Crosse	445	0		2		8		0		8		0		0		0		0		0		0	
Missouri U. of Science and Technology	447	42		89		7		0		7		0		0		0		0		0		0	
Claremont Graduate U.	448	746	i	472		6		0		0		6		0		0		0		0		0	

TABLE 58

Federally financed higher education R&D expenditures in non-science and engineering fields, ranked by all FY 2020 non-S&E fields: FYs 2018–20 and by subfield for FY 2020

(Dollars in thousands)

Institution	Rank	2018	2019	2020								
				All non-S&E fields	Business management and business administration	Communication and communications technologies	Education	Humanities	Law	Social work	Visual and performing arts	Other
Midwestern State U.	448	ne	ne	6	0	0	0	0	0	0	0	6
New Jersey City U.	448	650	2,022	6	0	0	0	0	0	0	0	6
Niagara U.	448	209	241	6	0	0	6	0	0	0	0	0
U. Alaska, Southeast	448	0	0	6	6	0	0	0	0	0	0	0
SUNY, Polytechnic Institute	453	42	23	5	0	0	0	5	0	0	0	0
U. Illinois, Springfield	453	1	14	5	0	0	0	5	0	0	0	0
West Virginia School of Osteopathic Medicine	453	ne	ne	5	0	0	5	0	0	0	0	0
U. Puget Sound	456	ne	ne	4	0	0	0	4	0	0	0	0
Fort Hays State U.	457	ne	4	3	0	0	3	0	0	0	0	0
St. Olaf C.	457	46	15	3	0	0	0	3	0	0	0	0
Benedict C.	459	0	0	2	0	0	0	0	0	0	0	2
Suffolk U.	459	ne	ne	2	0	0	2	0	0	0	0	0
SUNY, Buffalo State	461	17	22	1	0	0	1	0	0	0	0	0
All other surveyed institutions	-	19,821	4,920	0	0	0	0	0	0	0	0	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with zero in federally financed non-S&E R&D expenditures in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	7,080,598	942,322	248,527	1,332,269	139,892	636,550	49,265	81,961	67,986	3,524,858	56,968
Johns Hopkins U.[a]	1	1,373,241	177,731	12,316	60,399	85,182	188,145	536	4,039	39,256	805,637	0
Georgia Institute of Technology	2	580,258	135,125	353	13,586	137	3,834	725	6,670	0	419,828	0
Pennsylvania State U., University Park and Hershey Medical Center	3	330,115	68,746	6,371	6,253	8,833	14,861	372	564	0	223,717	398
Uniformed Services U. of the Health Sciences	4	218,434	0	0	212,730	0	0	5,704	0	0	0	0
U. Texas, Austin	5	178,548	38,092	228	4,855	882	30,678	365	237	313	102,069	829
Utah State U.	6	153,330	0	0	936	0	123	0	135	0	152,136	0
Massachusetts Institute of Technology	7	134,685	23,828	1,207	5,351	1,220	8,504	202	886	554	91,616	1,317
U. Southern California	8	130,708	83,624	89	13,437	22	4,019	365	780	0	26,835	1,537
U. California, San Diego	9	119,510	441	71,087	17,220	4	6,123	1,060	749	0	22,826	0
U. Maryland[b]	10	100,321	14,259	94	23,735	280	11,697	1,028	8,309	5,185	33,603	2,131
Colorado State U., Fort Collins	11	96,624	1,336	11,358	75,557	779	876	81	2,311	9	4,317	0
U. Dayton	12	90,417	5,964	0	83	0	508	0	0	0	83,614	248
Carnegie Mellon U.	13	90,117	67,001	0	0	133	212	1,306	2,114	340	18,967	44
U. Washington, Seattle	14	89,508	6,276	22,620	22,429	1,746	2,314	693	328	0	32,525	577
U. Michigan, Ann Arbor	15	77,782	104	49	17,125	658	3,601	225	1,983	0	54,037	0
Stanford U.	16	69,428	8,920	808	18,553	1,383	15,862	502	374	0	23,012	14
Duke U.	17	65,776	546	2,345	36,686	942	1,409	190	101	0	23,413	144
Harvard U.	18	63,252	3,037	1,337	20,973	252	15,410	0	3,802	0	18,441	0
U. Alabama, Huntsville	19	61,157	30,747	90	9	0	253	0	1,439	0	28,580	39
George Mason U.	20	60,459	15,066	189	4,188	340	2,441	175	885	0	37,167	8
U. Pennsylvania	21	57,517	10,855	38	9,170	226	5,797	3,277	6,671	0	19,662	1,821
Woods Hole Oceanographic Institution	22	55,879	0	30,854	0	0	0	0	0	0	25,025	0
U. Illinois, Urbana-Champaign	23	52,163	8,589	159	4,619	66	4,159	327	82	126	33,380	656
U. California, Los Angeles	24	49,615	2,155	1,225	18,401	5,974	3,004	823	492	727	16,296	518
Virginia Polytechnic Institute and State U.	25	49,263	5,139	0	3,903	221	2,277	0	34	125	37,560	4
U. Pittsburgh, Pittsburgh	26	48,018	1,590	347	35,071	375	5,096	0	28	261	5,248	2
Cornell U.	27	47,799	5,661	327	11,541	0	13,459	220	790	0	15,801	0
Columbia U. in the City of New York	28	47,328	11,501	1,241	12,375	455	4,364	321	1,137	0	15,278	656
Naval Postgraduate School	29	46,777	4,560	4,584	1,655	1,788	7,121	0	3,790	771	19,509	2,999

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Arizona State U.	30	45,400	8,359	186	7,039	459	1,853	820	1,061	1,691	22,217	1,715
Purdue U., West Lafayette	31	45,016	5,743	35	1,912	431	2,934	94	1,448	80	32,034	305
Northwestern U.	32	43,595	1,058	0	14,386	0	11,050	440	17	1,955	13,355	1,334
U. Virginia, Charlottesville	33	41,234	10,507	15	11,534	16	2,793	52	196	0	16,058	63
U. Colorado Boulder	34	40,468	3,144	2,550	2,776	0	14,322	524	0	0	17,152	0
Texas A&M U., College Station and Health Science Center	35	40,392	2,355	403	10,805	252	243	22	647	96	25,222	347
U. California, Berkeley	36	39,226	0	0	3,675	417	6,923	545	167	2,176	24,695	628
Ohio State U.	37	38,504	1,238	508	11,633	552	4,272	158	182	146	19,617	198
SUNY, U. Buffalo	38	37,862	0	43	3,505	0	836	0	0	0	33,478	0
U. Wisconsin-Madison	39	37,336	2,989	1,280	9,763	612	7,360	120	11	820	14,359	22
U. Alabama, Birmingham	40	37,281	0	0	13,931	0	589	66	0	0	22,695	0
U. California, San Francisco	41	36,517	0	0	32,465	0	4,052	0	0	0	0	0
U. Central Florida	42	35,966	12,649	0	874	0	11,065	3,803	68	0	7,496	11
Mississippi State U.	43	35,757	734	0	341	0	157	232	3,977	0	30,311	5
North Carolina State U.	44	35,434	2,133	792	5,862	2,333	1,228	0	330	7,675	15,049	32
U. California, Santa Barbara	45	34,900	3,677	645	337	0	8,535	71	54	0	21,581	0
California Institute of Technology	46	34,756	7,737	1,173	2,176	0	12,726	0	0	0	10,590	354
U. Florida	47	33,813	1,876	0	13,696	210	425	17	944	0	16,623	22
U. Minnesota, Twin Cities	48	33,686	813	0	13,777	356	1,018	25	7	0	16,238	1,452
U.S. Air Force Academy	49	33,115	490	0	0	0	2,636	0	227	0	29,762	0
Northeastern U.	50	32,845	6,362	0	1,094	0	1,316	483	1,596	0	21,742	252
Vanderbilt U. and Vanderbilt U. Medical Center	51	31,004	0	25	17,114	0	175	0	0	0	13,690	0
U. Utah	52	30,944	4,576	19	10,977	70	3,127	2,433	1,655	0	8,087	0
Princeton U.	53	30,324	3,423	444	2,169	1,140	5,938	241	540	0	16,321	108
Mercer U.	54	29,687	0	0	91	0	0	0	0	0	29,596	0
U. Hawaii, Manoa	55	29,458	8,649	1,980	1,127	124	7,476	0	0	0	10,102	0
U. Arizona	56	29,232	3,961	67	8,990	118	2,309	184	534	333	12,679	57
Montana State U., Bozeman	57	28,685	264	0	3,102	136	1,420	0	0	36	17,153	6,574
Icahn School of Medicine at Mount Sinai	58	27,216	0	0	27,216	0	0	0	0	0	0	0
U. Notre Dame	59	26,047	1,451	0	944	179	1,583	213	0	371	21,306	0
Wright State U.	60	25,512	517	0	1,173	0	524	1,074	0	0	22,173	51

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Yale U.	61	25,104	833	103	8,528	430	8,389	105	52	0	6,664	0
U. Chicago	62	24,834	1,691	0	4,539	389	8,033	882	1,835	0	7,465	0
Wichita State U.	63	23,795	0	0	0	0	0	41	0	0	23,733	21
SUNY, Polytechnic Institute	64	22,879	0	0	0	0	0	0	0	0	22,879	0
Stevens Institute of Technology	65	21,663	1,973	2,462	0	0	811	0	0	0	15,445	972
New York U.	66	21,608	1,974	0	11,106	1,912	2,745	784	0	0	2,606	481
Air Force Institute of Technology	67	21,467	1,656	490	0	497	4,515	0	0	0	14,309	0
U. Nebraska, central administration	68	21,430	1,385	0	10,847	0	0	0	0	0	8,340	858
New Jersey Institute of Technology	69	20,760	1,315	0	212	435	1,122	0	283	2	16,329	1,062
Boston U.	70	20,249	1,260	164	6,366	313	1,533	282	0	0	9,513	818
U. New Mexico	71	20,057	615	98	3,121	0	2,282	226	388	645	12,482	200
U. California, Davis	72	19,757	809	144	11,480	185	837	0	220	0	5,941	141
Rice U.	73	19,702	2,745	363	1,444	240	2,713	676	0	0	11,521	0
Brown U.	74	19,546	5,029	192	3,051	2,170	1,497	8	181	54	7,364	0
New Mexico State U.	75	19,336	0	11	3,227	0	11,394	0	0	0	4,704	0
U. North Carolina, Chapel Hill	76	19,056	2,875	513	10,698	359	4,057	0	118	0	376	60
Oregon State U.	77	18,278	2,047	4,549	2,562	67	267	69	0	630	7,525	562
U. Delaware	78	18,040	366	816	2,059	674	2,809	0	51	0	11,117	148
Florida State U.	79	17,546	528	875	352	127	763	3,734	0	0	11,167	0
U. Missouri, Columbia	80	17,161	1,867	259	3,957	0	3,364	429	0	0	7,252	33
U. Massachusetts, Lowell	81	17,086	889	650	157	0	7,010	0	422	0	7,629	329
U. Massachusetts, Amherst	82	16,361	5,782	0	928	300	2,563	1	0	0	6,787	0
Wake Forest U.	83	16,115	0	0	16,089	0	26	0	0	0	0	0
Baylor C. of Medicine	84	15,890	0	0	15,890	0	0	0	0	0	0	0
Washington U., Saint Louis	85	15,787	1,243	0	12,267	0	434	329	0	0	1,502	12
Michigan State U.	86	15,237	2,406	106	2,601	568	878	308	40	68	7,639	623
Indiana U., Bloomington	87	15,214	2,254	120	11,996	18	538	132	22	11	82	41
Case Western Reserve U.	88	14,648	0	0	7,378	30	1,907	0	122	0	5,211	0
U. Miami	89	14,610	0	6,180	6,966	0	435	528	0	0	501	0
U. Iowa	90	14,506	1,127	0	5,004	95	2,082	0	19	0	6,107	72
Emory U.	91	14,235	52	191	10,056	256	2,900	0	33	0	703	44
U. California, Irvine	92	14,181	1,925	0	6,184	516	582	44	0	0	4,891	39

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rutgers, State U. New Jersey, New Brunswick	93	14,023	0	347	3,689	685	1,367	21	7	0	7,889	18
Virginia Commonwealth U.	94	13,929	0	0	10,178	46	355	20	25	0	3,194	111
U. Tennessee, Knoxville[c]	95	13,702	628	69	3,008	192	279	0	108	378	8,951	89
U. Connecticut	96	13,660	142	445	1,704	23	1,528	0	0	0	9,818	0
U. Texas, Dallas	97	13,592	2,514	0	2,293	0	3,167	0	72	13	5,533	0
U. Cincinnati	98	13,220	0	11	9,270	159	128	0	112	0	3,365	175
U. Rochester	99	13,201	878	42	5,394	0	5,067	27	31	0	1,762	0
Oregon Health and Science U.	100	13,163	0	0	13,118	0	0	0	0	0	45	0
U. Colorado Denver and Anschutz Medical Campus	101	12,993	0	0	12,148	25	0	0	0	0	568	252
Iowa State U.	102	12,666	1,200	0	2,171	0	545	0	0	0	8,657	93
Michigan Technological U.	103	12,512	3	896	0	152	275	0	0	0	11,001	185
U. Maine	104	12,392	0	91	21	0	263	0	0	13	12,004	0
U. Hawaii, system office	105	11,673	0	11,673	0	0	0	0	0	0	0	0
Tufts U.	106	11,639	2,908	0	3,677	90	39	420	0	253	4,252	0
U.S. Naval Academy	107	11,379	1,213	619	0	736	1,629	0	0	0	6,886	296
U. Southern Mississippi	108	11,057	4	2,782	183	187	4,869	0	2,570	0	456	6
Auburn U., Auburn	109	10,945	773	0	947	0	811	220	0	50	8,132	12
U. Alaska, Fairbanks	110	10,747	84	1,593	197	0	4,401	0	1	302	4,117	52
U. Illinois, Chicago	111	10,406	1,581	0	5,678	0	166	0	0	0	2,502	479
Missouri State U.	112	10,359	48	0	68	0	0	0	147	0	10,096	0
Rensselaer Polytechnic Institute	113	10,332	1,798	0	0	508	348	2,477	0	0	4,747	454
Florida International U.	114	10,180	2,173	718	907	0	1,193	0	775	0	4,414	0
U. Mississippi	115	9,899	0	0	2,924	0	3,486	0	0	0	3,489	0
Georgetown U.	116	9,875	1,441	0	8,307	0	6	0	97	24	0	0
U. Oklahoma, Norman and Health Science Center	117	9,809	53	1,298	2,331	0	438	115	297	0	4,953	324
Louisiana State U., Baton Rouge	118	9,664	4,465	125	3,101	753	644	0	159	0	417	0
Colorado School of Mines	119	9,593	722	171	110	97	1,244	0	0	0	7,142	107
Temple U.	120	9,097	319	0	4,964	0	2,174	0	27	0	984	629
Washington State U.	121	8,962	603	377	3,506	212	2,112	238	61	0	1,853	0
U. Texas, Arlington	122	8,647	0	0	331	1	1,894	38	0	0	6,383	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Dartmouth C. and Dartmouth Hitchcock Medical Center	123	8,404	2,460	0	1,537	117	358	679	0	0	3,253	0
U. Nebraska, Lincoln	124	8,390	796	142	223	28	1,755	89	0	0	5,338	19
U. Texas Southwestern Medical Center	125	7,973	0	0	7,973	0	0	0	0	0	0	0
George Washington U.	126	7,873	381	0	1,464	221	252	218	1,011	155	4,103	68
U. Texas Health Science Center, Houston	127	7,857	0	0	7,857	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	128	7,839	0	0	7,729	21	0	0	89	0	0	0
New Mexico Institute of Mining and Technology	129	7,835	1,958	69	0	50	80	0	0	0	5,678	0
Drexel U.	130	7,803	435	0	812	0	1	0	0	0	6,555	0
Old Dominion U.	131	7,549	70	0	735	82	42	15	59	0	6,250	296
U. Texas Health Science Center, San Antonio	132	7,444	0	0	7,444	0	0	0	0	0	0	0
U.S. Military Academy	133	7,279	467	98	295	0	806	4	19	0	5,252	338
U. Kansas	134	7,246	1,406	778	2,568	117	18	0	28	0	2,325	6
U. Kentucky	135	7,198	367	0	4,256	0	126	138	0	0	2,059	252
U. California, Riverside	136	6,934	1,132	0	1,372	0	489	186	0	0	3,755	0
Worcester Polytechnic Institute	137	6,870	1,183	0	0	281	0	0	0	0	5,272	134
U. Missouri, Kansas City	138	6,854	189	0	468	0	314	0	0	0	5,883	0
Northern Arizona U.	139	6,850	59	0	4,360	0	133	537	0	0	1,761	0
U. Massachusetts, Medical School	140	6,772	0	0	6,772	0	0	0	0	0	0	0
U. Alabama, Tuscaloosa	141	6,693	185	0	18	0	327	148	104	0	5,425	486
Rochester Institute of Technology	142	6,494	894	0	0	194	1,897	5	0	0	3,486	18
Medical C. Wisconsin	143	6,418	0	0	4,656	0	0	0	0	0	1,762	0
Wayne State U.	144	6,346	0	14	3,931	155	802	0	0	0	1,413	31
U. Texas Medical Branch	145	6,042	0	0	6,042	0	0	0	0	0	0	0
Texas Tech U.	146	6,022	0	6	423	0	415	251	0	0	4,712	215
SUNY, Stony Brook U.	147	6,009	1,992	0	1,286	481	1,129	0	0	31	1,090	0
Naval War C.	148	5,944	0	0	0	0	0	0	724	0	0	5,220
SUNY, Binghamton U.	149	5,485	1,037	0	397	0	566	121	0	0	3,158	206
U. Nebraska, Medical Center	150	5,403	0	0	5,403	0	0	0	0	0	0	0
Clemson U.	151	5,394	159	0	280	479	101	0	0	0	4,358	17

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nevada, Reno	152	5,334	1,500	16	2,726	81	260	0	203	0	536	12
Nova Southeastern U.	153	5,165	0	2,852	2,015	0	0	298	0	0	0	0
Desert Research Institute	154	5,097	0	5,097	0	0	0	0	0	0	0	0
Kansas State U.	155	4,948	1,077	0	985	0	272	414	367	0	1,790	43
U. Rhode Island	156	4,913	0	1,365	259	0	113	0	75	0	2,872	229
U. Arkansas, Fayetteville	157	4,854	199	8	434	0	692	0	0	0	3,521	0
U. New Hampshire	158	4,758	0	2,612	721	0	155	132	62	0	974	102
U. North Carolina, Charlotte	159	4,714	682	0	418	285	798	261	616	0	1,641	13
Albert Einstein C. of Medicine	160	4,693	0	0	4,693	0	0	0	0	0	0	0
Rowan U.	161	4,659	0	0	0	0	0	0	0	0	4,659	0
West Virginia U.	162	4,636	979	0	2,072	0	174	0	166	4	1,110	131
National Defense U.	163	4,583	0	0	200	0	0	0	2,383	0	0	2,000
Southern Methodist U.	164	4,503	20	2,437	0	128	0	0	0	0	1,898	20
U. South Carolina, Columbia	165	4,488	110	174	928	179	0	0	402	0	2,497	198
U. Texas, San Antonio	166	4,451	1,412	0	892	0	877	77	51	0	1,142	0
U. Houston	167	4,371	0	0	516	193	315	153	39	0	3,155	0
Tulane U.	168	4,274	1,342	164	2,288	0	480	0	0	0	0	0
Missouri U. of Science and Technology	169	4,238	0	0	19	0	443	134	0	0	3,642	0
U. South Florida, Tampa	170	4,148	782	0	1,350	56	137	50	24	0	1,404	345
U. California, Santa Cruz	171	4,135	168	1,654	48	0	90	0	73	0	2,102	0
Brigham Young U., Provo	172	4,112	738	0	132	4	642	0	0	0	1,354	1,242
Florida Atlantic U.	173	3,964	72	26	2,138	144	266	0	0	0	1,123	195
U. Arkansas, Little Rock	174	3,787	1,906	0	1,879	0	0	0	2	0	0	0
Cleveland State U.	175	3,490	0	0	1,360	0	0	0	0	0	2,130	0
Lehigh U.	176	3,470	327	0	0	0	0	0	0	0	3,108	35
U. Maryland, Baltimore County	177	3,410	1,269	0	153	8	727	0	0	0	1,187	66
Boston C.	178	3,386	0	2,739	141	0	506	0	0	0	0	0
Florida Institute of Technology	179	3,335	660	110	235	0	108	182	0	0	2,040	0
U. Oregon	180	3,325	473	0	707	0	679	367	241	0	0	858
San Diego State U.	181	3,318	246	408	602	27	108	0	197	0	1,596	134
CUNY, Advanced Science Research Center	182	3,247	0	0	0	0	2,740	0	0	0	507	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Louisville	183	3,236	0	0	2,251	0	0	37	0	0	948	0
Thomas Jefferson U.	184	3,229	0	0	3,170	0	0	0	0	0	59	0
North Carolina Agricultural and Technical State U.	185	3,140	548	0	0	113	57	0	0	0	2,406	16
Texas State U.	186	3,102	189	1,449	0	0	646	0	818	0	0	0
Syracuse U.	187	3,044	45	0	270	0	487	0	0	0	1,930	312
U. Georgia	188	3,039	109	3	1,515	0	157	135	245	0	784	91
U. California, Merced	189	3,018	116	0	0	904	1,121	0	0	0	877	0
U. Tennessee, Health Science Center	190	2,943	0	0	2,943	0	0	0	0	0	0	0
U. Toledo	191	2,828	0	0	339	0	2,219	0	0	0	270	0
U. Texas, El Paso	192	2,802	262	18	139	3	83	0	14	0	2,283	0
Oklahoma State U., Stillwater	193	2,798	0	0	430	24	149	0	0	0	2,195	0
U. Akron	194	2,779	0	0	387	11	889	4	0	0	1,488	0
SUNY, U. Albany	195	2,724	1,410	436	207	0	0	128	392	0	0	151
Youngstown State U.	196	2,717	0	0	0	0	0	0	0	0	2,717	0
Montana Technological U.	197	2,644	0	0	0	0	0	0	0	0	2,644	0
Medical U. South Carolina	198	2,640	0	0	2,640	0	0	0	0	0	0	0
Scripps Research Institute	199	2,606	0	0	2,606	0	0	0	0	0	0	0
Howard U.	200	2,569	115	0	512	0	122	34	0	0	1,786	0
Rockefeller U.	201	2,561	0	466	2,095	0	0	0	0	0	0	0
Georgia State U.	202	2,517	0	0	36	0	1,476	0	21	0	0	984
Portland State U.	203	2,512	306	31	204	260	0	250	0	0	1,383	78
Norfolk State U.	204	2,355	2,001	0	0	0	354	0	0	0	0	0
Boise State U.	205	2,338	152	0	657	76	434	0	363	0	638	18
Loma Linda U.	206	2,331 i	0 i	0 i	2,331 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Vermont	207	2,321	454	0	1,231	118	2	0	0	0	516	0
U. North Texas, Denton	208	2,320	65	80	5	37	431	0	36	0	1,624	42
South Dakota School of Mines and Technology	209	2,319	49	0	0	94	269	0	0	0	1,907	0
U. Montana, Missoula	210	2,296	0	0	2,277	0	19	0	0	0	0	0
Louisiana Tech U.	211	2,093	726	0	12	0	3	0	0	0	1,343	9
U. Alaska, Anchorage	212	2,078	0	696	681	0	59	0	474	152	2	14
William & Mary	213	2,057	17	319	120	138	903	0	69	0	0	491

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Guam	214	2,012	0	255	1,757	0	0	0	0	0	0	0
U. Tulsa	215	1,948	1,889	0	0	0	0	0	0	0	59	0
U. Idaho	216	1,915	0	19	1,307	0	0	0	0	0	589	0
CUNY, City C.	217	1,893	90	0	276	40	780	0	0	0	660	47
U. North Dakota	218	1,863	72	1,022	335	0	0	40	0	0	394	0
U. Wyoming	219	1,800	263	4	1,180	0	0	0	0	0	353	0
Saint Louis U.	220	1,763	0	0	1,350	0	0	43	0	0	370	0
SUNY, Upstate Medical U.	221	1,715	0	0	1,715	0	0	0	0	0	0	0
Haverford C.	222	1,696	0	0	0	0	1,696	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	223	1,634	1,013	620	0	0	0	0	0	0	0	1
Morgan State U.	224	1,572	182	0	0	11	218	82	0	0	1,079	0
U. Nebraska, Omaha	225	1,475	289	0	986	0	0	0	77	0	0	123
Clarkson U.	226	1,461	147	0	145	349	0	0	0	0	727	93
North Dakota State U.	227	1,413	0	0	55	0	913	0	0	0	445	0
California State U., San Marcos	228	1,410	0	0	0	0	0	0	0	1,410	0	0
Prairie View A&M U.	228	1,410	0	0	65	0	0	0	0	0	1,345	0
U. Nevada, Las Vegas	230	1,403	11	21	290	0	374	31	0	0	676	0
Augusta U.	231	1,380	0	0	1,380	0	0	0	0	0	0	0
Chapman U.	232	1,378	0	0	156	0	1,222	0	0	0	0	0
Hampton U.	233	1,370	0	315	799	0	141	0	0	0	78	37
California State U., Northridge	234	1,316	0	361	0	353	341	0	0	0	261	0
Indiana U.-Purdue U., Indianapolis	235	1,315	27	0	919	0	110	0	0	0	107	152
Miami U.	236	1,314	41	0	0	0	55	655	0	0	481	82
U. Massachusetts, Dartmouth	237	1,257	235	5	0	43	0	0	0	0	974	0
U. Texas Rio Grande Valley	238	1,209	0	0	3	0	853	0	0	0	353	0
East Carolina U.	239	1,176	0	56	452	0	33	15	32	0	63	525
U. New Orleans	240	1,095	397	0	0	0	501	0	105	0	92	0
American U.	241	1,092	197	0	0	263	0	0	82	327	0	223
U. West Florida	242	1,090	258	0	17	0	0	113	0	0	11	691
Kent State U.	243	1,081	0	0	304	14	611	0	138	0	14	0
Baylor U.	244	1,073	0	0	131	0	374	0	0	0	568	0
Dakota State U.	245	1,067	1,067	0	0	0	0	0	0	0	0	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio U.	246	1,061	0	0	156	0	169	0	0	0	716	20
San Jose State U.	247	1,044	0	573	239	0	211	0	0	0	21	0
Tennessee Technological U.	247	1,044	0	0	126	0	0	0	0	0	791	127
Loyola U., Chicago	249	1,041	0	0	1,035	0	0	6	0	0	0	0
U. Memphis	250	1,028	434	66	64	0	0	114	84	0	171	95
Wesleyan U.	251	1,002	0	0	0	169	663	170	0	0	0	0
Illinois Institute of Technology	252	970	183	0	129	0	0	0	0	0	658	0
U. Maryland Center for Environmental Science	253	955	0	116	839	0	0	0	0	0	0	0
SUNY, Downstate Medical Center	254	946	0	0	946	0	0	0	0	0	0	0
U. Arkansas for Medical Sciences	255	931	0	0	931	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	256	917	0	0	917	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	257	884	0	0	0	0	37	0	0	0	847	0
Charles R. Drew U. of Medicine and Science	258	874	0	0	874	0	0	0	0	0	0	0
Toyota Technological Institute, Chicago	259	852	852	0	0	0	0	0	0	0	0	0
Alabama A&M U.	260	839 i	99 i	0 i	205 i	10 i	64 i	8 i	9 i	0 i	436 i	8 i
U. Massachusetts, Boston	261	827	0	0	510	0	125	0	0	0	192	0
Southern Illinois U., Carbondale	262	824	0	4	738	0	0	0	0	44	38	0
U. of Health Sciences and Pharmacy in St. Louis	263	801	0	0	801	0	0	0	0	0	0	0
Rosalind Franklin U. of Medicine and Science	264	796	0	0	796	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center	265	792	0	0	792	0	0	0	0	0	0	0
Xavier U. Louisiana	266	781	0	0	230	0	551	0	0	0	0	0
U. Colorado Colorado Springs	267	748	139	112	54	0	0	0	0	0	401	42
Creighton U.	268	730 i	220 i	36 i	218 i	41 i	184 i	9 i	16 i	0 i	0 i	6 i
Van Andel Research Institute	268	730	0	0	730	0	0	0	0	0	0	0
U. Tennessee, Chattanooga	270	722	93	0	0	0	0	78	0	0	551	0
Clark Atlanta U.	271	709	0	0	269	0	440	0	0	0	0	0
Tennessee State U.	272	679	58	0	0	0	0	0	0	0	621	0
California State U., Long Beach	273	674	0	0	7	0	0	0	0	0	667	0
U. Northern Iowa	274	673	0	0	0	0	673	0	0	0	0	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bryn Mawr C.	275	672	0	0	0	0	0	0	0	0	0	672
Florida A&M U.	276	663	54	0	0	0	87	0	0	0	522	0
U. of the District of Columbia	277	648	0	0	0	0	0	0	0	0	648	0
Dillard U.	278	646	0	0	0	0	646	0	0	0	0	0
Eastern Virginia Medical School	278	646	0	0	646	0	0	0	0	0	0	0
Jackson State U.	280	645	2	0	1	55	561	0	0	0	26	0
U. Louisiana, Lafayette	281	634	0	10	7	0	20	0	0	0	45	552
U. Wisconsin-Milwaukee	282	616	0	0	0	0	0	0	0	0	616	0
Claflin U.	283	612	0	0	612	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	284	602	66	0	0	0	49	0	0	0	487	0
Alfred U.	285	597	0	0	0	0	0	0	0	0	597	0
U. Denver	286	588	0	0	37	0	0	0	284	0	267	0
Western U. of Health Sciences	287	585	0	0	585	0	0	0	0	0	0	0
Savannah State U.	288	582	0	150	60	0	0	0	0	0	372	0
U. North Carolina, general administration	289	572	10	0	0	0	0	0	0	0	552	10
Towson U.	290	562	79	468	0	0	15	0	0	0	0	0
Villanova U.	291	559	73	0	0	2	10	0	0	0	474	0
U. North Texas, Health Science Center	292	548	0	0	548	0	0	0	0	0	0	0
Brandeis U.	293	545	529	0	0	0	16	0	0	0	0	0
U. of the Incarnate Word	294	531	0	0	531	0	0	0	0	0	0	0
California State U., Chico	295	503	0	0	0	0	0	0	225	0	246	32
Rush U.	296	457	0	0	457	0	0	0	0	0	0	0
Duquesne U.	297	456	0	0	456	0	0	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	298	451	79	0	69	0	0	0	0	0	303	0
California Polytechnic State U., San Luis Obispo	299	440	137	93	0	0	0	0	0	0	210	0
South Dakota State U.	300	435	0	0	105	40	226	0	0	0	64	0
New York Medical C.	301	403	0	0	403	0	0	0	0	0	0	0
U. North Carolina, Greensboro	302	402	0	0	54	0	285	0	0	0	0	63
Oakland U.	303	401	175	0	33	0	102	0	0	0	91	0
Southern U. and A&M C., Baton Rouge	304	396	182	0	0	0	95	0	0	0	119	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bowie State U.	305	394	394	0	0	0	0	0	0	0	0	0
Fordham U.	306	382	164	0	0	0	0	218	0	0	0	0
Marquette U.	307	380	0	0	0	0	0	0	0	0	380	0
Texas A&M U.-Kingsville	307	380	0	0	23	0	0	0	0	0	357	0
Catholic U. of America	309	363	0	0	35	0	17	0	0	0	311	0
Morehouse C.	310	359	359	0	0	0	0	0	0	0	0	0
U. South Alabama	310	359	11	0	38	0	119	0	0	0	191	0
Albany Medical C.	312	357	0	0	357	0	0	0	0	0	0	0
Citadel Military C. South Carolina	313	350	341	0	9	0	0	0	0	0	0	0
CUNY, Hunter C.	314	342	0	0	99	0	243	0	0	0	0	0
Marshall U.	315	341	73	0	69	0	2	0	0	0	197	0
San Francisco State U.	316	331 i	0 i	0 i	0 i	0 i	111 i	0 i	0 i	0 i	220 i	0 i
Fisk U.	317	326	0	0	326	0	0	0	0	0	0	0
U. North Georgia	318	321	37	9	67	0	0	0	0	0	0	208
Texas A&M International U.	319	317	0	0	0	0	0	0	0	317	0	0
U. San Diego	320	316	0	0	21	63	80	1	0	0	0	151
Delaware State U.	321	315 i	0 i	0 i	0 i	130 i	0 i	0 i	0 i	0 i	185 i	0 i
Purdue U., Northwest	322	312	109	0	0	0	0	0	0	0	203	0
U. New Haven	322	312	73	0	0	0	0	0	130	0	109	0
Texas Tech U., Health Sciences Center, El Paso	324	310	0	0	310	0	0	0	0	0	0	0
California State U., Monterey Bay	325	290	0	261	29	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	326	276	0	0	0	102	174	0	0	0	0	0
CUNY, Baruch C.	327	263	0	0	42	0	0	40	181	0	0	0
U. Hawaii, Hilo	328	259	0	210	49	0	0	0	0	0	0	0
U. North Carolina, Wilmington	329	257	30	0	157	0	0	0	0	0	0	70
California State U., Los Angeles	330	252	0	0	0	0	244	0	0	0	8	0
West Chester U. Pennsylvania	331	251	0	0	196	0	0	0	0	0	0	55
U. South Dakota	332	247	0	0	241	0	0	0	0	0	0	6
Polytechnic U. Puerto Rico	333	244	244	0	0	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	333	244	244	0	0	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	335	240	0	0	240	0	0	0	0	0	0	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Lawrence Technological U.	336	224	63	0	0	0	0	0	0	0	161	0
Southern Connecticut State U.	337	219	0	0	0	0	219	0	0	0	0	0
Tuskegee U.	338	217	0	0	36	0	0	0	0	0	181	0
Bucknell U.	339	213 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	85 i	127 i
U. Wisconsin-Oshkosh	340	209 i	22 i	5 i	45 i	2 i	13 i	2 i	1 i	0 i	118 i	1 i
Sam Houston State U.	341	197	0	0	0	0	197	0	0	0	0	0
Alabama State U.	342	183	0	0	183	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	342	183	0	0	0	0	133	0	0	0	50	0
Stonehill C.	342	183	0	183	0	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	345	180	0	0	78	0	102	0	0	0	0	0
CUNY, Queens C.	346	176	0	0	0	0	176	0	0	0	0	0
Calvin U.	347	163 i	0 i	0 i	0 i	31 i	132 i	0 i	0 i	0 i	0 i	0 i
Northeast Ohio Medical U.	348	159	0	0	159	0	0	0	0	0	0	0
Fort Valley State U.	349	158	0	0	0	158	0	0	0	0	0	0
U. Washington, Bothell	349	158	41	53	0	0	0	0	0	0	0	64
New School	351	157	0	0	0	0	0	157	0	0	0	0
Northern Illinois U.	351	157	0	0	0	0	0	28	129	0	0	0
Pace U.	353	153	153	0	0	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	354	145	0	0	145	0	0	0	0	0	0	0
California Lutheran U.	355	144	0	0	144	0	0	0	0	0	0	0
California State U., Channel Islands	355	144	0	0	144	0	0	0	0	0	0	0
U. Washington, Tacoma	357	139	98	41	0	0	0	0	0	0	0	0
California State U., San Bernardino	358	133	34	0	0	0	0	0	99	0	0	0
U. Wisconsin-Green Bay	359	131 i	15 i	3 i	30 i	1 i	9 i	1 i	1 i	0 i	70 i	1 i
SUNY, C. of Environmental Science and Forestry	360	130	0	0	130	0	0	0	0	0	0	0
CUNY, Medgar Evers C.	361	129	0	0	0	0	129	0	0	0	0	0
New York Institute of Technology	361	129	0	0	0	0	0	0	0	0	129	0
U. North Florida	361	129	0	0	0	0	0	0	0	0	70	59
East Tennessee State U.	364	126	0	0	126	0	0	0	0	0	0	0
Claremont Graduate U.	365	120	0	0	0	0	0	0	120	0	0	0
Azusa Pacific U.	366	116	0	0	116	0	0	0	0	0	0	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Keck Graduate Institute	366	116 i	31 i	0 i	32 i	6 i	0 i	0 i	0 i	0 i	44 i	3 i
Connecticut C.	368	113	0	0	0	0	113	0	0	0	0	0
Bowling Green State U.	369	112	0	0	0	0	0	112	0	0	0	0
Fayetteville State U.	370	111	63	0	0	0	48	0	0	0	0	0
Lipscomb U.	371	106 i	15 i	0 i	14 i	3 i	13 i	1 i	0 i	0 i	60 i	0 i
Saginaw Valley State U.	372	105	0	0	0	0	0	0	0	0	105	0
U. Wisconsin-Platteville	373	104 i	8 i	0 i	4 i	1 i	6 i	0 i	13 i	0 i	56 i	16 i
Framingham State U.	374	103	0	0	0	0	103	0	0	0	0	0
Biola U.	375	102 i	17 i	0 i	16 i	3 i	13 i	1 i	2 i	0 i	50 i	0 i
Lafayette C.	375	102	85	0	17	0	0	0	0	0	0	0
Coastal Carolina U.	377	99	0	99	0	0	0	0	0	0	0	0
Middle Tennessee State U.	378	98	25	0	73	0	0	0	0	0	0	0
Georgia Southern U.	379	95	0	0	0	0	85	0	0	0	10	0
Texas A&M U.-Corpus Christi	380	91	0	0	2	0	0	0	0	0	89	0
Pomona C.	381	84	0	0	0	5	0	0	79	0	0	0
St. John's U., New York	382	83	0	0	0	0	83	0	0	0	0	0
SUNY, C. Plattsburgh	383	82	0	0	82	0	0	0	0	0	0	0
U. Michigan, Dearborn	383	82	0	0	0	61	0	0	0	0	21	0
CUNY, system office	385	78	78	0	0	0	0	0	0	0	0	0
Eastern Michigan U.	386	75	0	0	0	0	75	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	387	74	0	0	74	0	0	0	0	0	0	0
U. Texas, Tyler	388	72	0	0	72	0	0	0	0	0	0	0
Sonoma State U.	389	71	0	0	71	0	0	0	0	0	0	0
Western Illinois U.	389	71	0	0	0	0	0	0	0	0	71	0
Weber State U.	391	70	70	0	0	0	0	0	0	0	0	0
U. Minnesota, Duluth	392	69	0	0	26	37	0	0	0	0	6	0
Central Michigan U.	393	67	0	0	0	0	67	0	0	0	0	0
North Carolina Central U.	394	66	0	12	0	0	54	0	0	0	0	0
Mercyhurst U.	395	65 i	20 i	1 i	20 i	4 i	18 i	1 i	1 i	0 i	0 i	0 i
Minnesota State U., Mankato	395	65	0	0	65	0	0	0	0	0	0	0
Fort Lewis C.	397	64	0	0	0	0	0	0	0	0	64	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
C. Wooster	398	62	0	0	0	0	62	0	0	0	0	0
Colgate U.	398	62	53	0	0	0	9	0	0	0	0	0
Rhode Island C.	400	60	60	0	0	0	0	0	0	0	0	0
Claremont McKenna C.	401	59	0	0	0	0	59	0	0	0	0	0
Florida Gulf Coast U.	401	59	0	0	0	0	0	0	40	0	0	19
Williams C.	403	58 i	0 i	0 i	0 i	5 i	53 i	0 i	0 i	0 i	0 i	0 i
U. Central Oklahoma	404	57 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	57 i	0 i	0 i
Arkansas State U., Jonesboro	405	55	0	0	0	0	55	0	0	0	0	0
U. Detroit Mercy	405	55	0	0	0	0	0	0	0	0	55	0
Pepperdine U.	407	54	0	0	54	0	0	0	0	0	0	0
Austin Peay State U.	408	52	0	52	0	0	0	0	0	0	0	0
Santa Clara U.	408	52	18	0	0	0	0	0	0	0	6	28
Yeshiva U.	408	52	0	0	52	0	0	0	0	0	0	0
U. Missouri, Saint Louis	411	51	0	0	46	0	0	0	0	0	0	5
CUNY, John Jay C. of Criminal Justice	412	45	0	0	45	0	0	0	0	0	0	0
Idaho State U.	412	45	0	0	0	0	0	0	0	0	45	0
U. Wisconsin-Stevens Point	414	43	0	0	0	0	43	0	0	0	0	0
Barnard C.	415	42	0	0	0	0	0	0	42	0	0	0
Columbus State U.	416	40	40	0	0	0	0	0	0	0	0	0
Texas Christian U.	417	36	0	0	0	0	0	0	0	0	8	28
James Madison U.	418	35	0	0	0	0	0	0	0	0	35	0
Smith C.	419	33	33	0	0	0	0	0	0	0	0	0
Pennsylvania State U., Behrend	420	30	3	0	0	0	0	0	0	0	27	0
Elizabeth City State U.	421	29	0	0	0	0	0	0	0	0	0	29
California State U., Bakersfield	422	28	0	0	0	0	0	0	24	0	4	0
Marshall B. Ketchum U.	422	28 i	0 i	0 i	28 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Pennsylvania State U., Harrisburg	424	24	1	1	1	0	0	0	0	0	20	1
Christopher Newport U.	425	22	0	0	22	0	0	0	0	0	0	0
Colby C.	425	22	0	0	0	0	0	0	0	0	0	22
Grand Valley State U.	425	22	0	0	0	22	0	0	0	0	0	0
CUNY, York C.	428	20	0	0	0	0	0	0	0	0	0	20
Florida Polytechnic U.	428	20	0	0	0	0	0	0	0	0	20	0

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Hartford	428	20	0	0	0	0	0	0	0	0	20	0
Whitman C.	428	20	0	0	20	0	0	0	0	0	0	0
Ball State U.	432	19	2	0	0	0	0	0	0	0	0	17
U. Texas Health Science Center, Tyler	433	16	0	0	16	0	0	0	0	0	0	0
Purdue U., Fort Wayne	434	15	0	0	10	0	0	0	0	0	5	0
U. of Mary Washington	434	15	15	0	0	0	0	0	0	0	0	0
California State U., Sacramento	436	14	14	0	0	0	0	0	0	0	0	0
DePaul U.	436	14	14	0	0	0	0	0	0	0	0	0
U. Wisconsin-La Crosse	436	14	0	0	0	0	0	0	14	0	0	0
Western Kentucky U.	436	14	0	0	0	0	0	0	0	0	0	14
Edward Via C. of Osteopathic Medicine	440	13	0	0	13	0	0	0	0	0	0	0
U. Northern Colorado	440	13	0	0	13	0	0	0	0	0	0	0
U. Central Arkansas	442	11	11	0	0	0	0	0	0	0	0	0
Clark U.	443	9	0	0	0	0	0	9	0	0	0	0
Occidental C.	443	9	0	0	0	9	0	0	0	0	0	0
U. Wisconsin-Superior	443	9	0	0	9	0	0	0	0	0	0	0
Eastern Kentucky U.	446	8	0	0	0	0	0	8	0	0	0	0
Kennesaw State U.	446	8	0	0	0	0	8	0	0	0	0	0
Langston U.	446	8	0	0	0	0	0	0	0	0	0	8
Grambling State U.	449	7	0	0	0	0	7	0	0	0	0	0
Vassar C.	449	7	0	0	0	0	0	7	0	0	0	0
Meharry Medical C.	451	6	0	0	6	0	0	0	0	0	0	0
U. Alaska, Southeast	451	6	0	0	0	0	0	0	0	0	0	6
California State Polytechnic U., Pomona	453	5	0	0	0	0	0	0	0	0	5	0
SUNY, C. Brockport	453	5	0	0	3	0	2	0	0	0	0	0
Virginia State U.	455	4	0	0	0	0	0	0	0	0	4	0
Western Washington U.	455	4	0	0	0	0	0	0	0	0	4	0
Hofstra U.	457	3	3	0	0	0	0	0	0	0	0	0
Jacksonville State U.	457	3	3	0	0	0	0	0	0	0	0	0
Rhode Island School of Design	457	3 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
St. Cloud State U.	457	3	0	0	0	0	3	0	0	0	0	0
U. Illinois, Springfield	457	3	0	0	0	0	0	0	0	0	0	3

TABLE 59

Federally financed higher education R&D expenditures, financed by the Department of Defense, ranked by DOD R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOD R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas Woman's U.	462	2	0	0	2	0	0	0	0	0	0	0
CUNY, Lehman C.	463	1	0	0	0	0	1	0	0	0	0	0
U. Houston-Clear Lake	463	1	1	0	0	0	0	0	0	0	0	0
U. of St. Thomas (MN)	463	1	0	0	0	0	0	0	0	0	1	0

i = imputed.

DOD = Department of Defense; nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,297,401 thousand in R&D expenditures financed by DOD in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	2,037,915	48,280	92,962	234,655	9,124	753,512	1,148	5,930	16,480	869,885	5,939
Michigan State U.	1	86,992	81	193	18,179	222	61,156	0	20	81	7,051	9
U. Rochester	2	83,859	0	0	182	0	81,742	0	0	0	1,935	0
U. Illinois, Urbana-Champaign	3	75,459	2,272	820	37,978	217	8,727	307	4	1	24,770	363
U. Wisconsin-Madison	4	69,108	260	1,669	29,802	4	13,072	0	0	1	24,293	7
Massachusetts Institute of Technology	5	66,436	913	1,006	10	0	36,164	0	11	0	28,332	0
U. Tennessee, Knoxville[a]	6	60,980	5,709	219	3,912	60	8,797	0	29	4,819	36,891	544
U. California, Berkeley	7	43,606	97	1,533	6,100	558	15,383	2	218	2,323	17,392	0
U. Texas, Austin	8	43,372	1,026	6,829	3,567	578	10,719	459	0	0	19,600	594
U. Michigan, Ann Arbor	9	39,304	0	138	822	0	7,330	0	136	0	30,878	0
North Carolina State U.	10	38,530	447	174	1,142	627	4,390	0	49	0	31,701	0
U. Washington, Seattle	11	34,131	298	2,201	3,842	174	17,097	0	0	0	10,325	194
Texas A&M U., College Station and Health Science Center	12	33,824	824	1,214	2,901	56	9,008	0	87	0	19,536	198
Pennsylvania State U., University Park and Hershey Medical Center	13	33,203	564	3,032	6,546	150	6,745	12	9	0	16,123	22
Iowa State U.	14	33,159	833	1,192	2,619	219	13,315	0	0	76	14,905	0
U. California, San Diego	15	30,822	214	1,101	252	20	18,490	0	127	1,861	8,757	0
U. California, Los Angeles	16	28,888	76	1,870	3,403	110	13,206	0	185	711	9,327	0
Purdue U., West Lafayette	17	28,811	628	9	2,575	15	5,302	0	241	0	19,916	125
Ohio State U.	18	27,688	253	561	1,787	0	6,897	0	149	157	17,879	5
U. Colorado Boulder	19	25,970	573	2,538	829	189	9,266	0	1	34	12,540	0
U. Utah	20	24,872	2,172	7,775	208	0	4,670	0	65	0	9,982	0
Stanford U.	21	24,507	276	1,542	1,058	0	5,836	0	0	0	15,795	0
Virginia Polytechnic Institute and State U.	22	24,180	661	265	101	289	2,984	0	0	0	19,880	0
Cornell U.	23	23,795	49	218	1,627	0	14,412	0	0	0	7,176	313
U. Minnesota, Twin Cities	24	22,855	92	25	1,378	0	13,945	0	41	0	7,334	40
Northwestern U.	25	22,672	858	81	3,294	0	8,269	0	529	1,599	8,042	0
SUNY, Stony Brook U.	26	21,900	350	2,222	378	542	11,016	0	15	1,865	5,512	0
Columbia U. in the City of New York	27	21,289	746	1,067	148	0	7,626	0	0	0	11,702	0
California Institute of Technology	28	20,937	233	606	0	0	19,621	0	0	0	468	9
Colorado School of Mines	29	20,441	121	1,010	903	36	4,256	0	514	0	13,565	36

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Washington State U.	30	19,553	256	1,218	1,597	8	8,540	0	0	0	7,667	267
Princeton U.	31	19,178	40	375	1,196	0	11,169	0	0	0	6,398	0
U. Maryland[b]	32	18,488	1,421	811	1,214	0	5,741	0	0	0	9,301	0
Georgia Institute of Technology	33	18,409	419	365	72	0	1,060	0	0	0	16,046	447
U. North Dakota	34	18,047	0	120	0	0	78	0	25	0	17,824	0
Duke U.	35	17,100	0	848	629	26	10,770	0	74	0	4,740	13
U. Florida	36	16,627	308	363	3,278	0	5,419	0	0	0	7,259	0
Arizona State U.	37	16,407	0	367	1,916	75	2,362	0	135	549	11,003	0
Oregon State U.	38	16,185	0	597	1,802	0	1,067	0	0	0	12,719	0
Carnegie Mellon U.	39	16,129	1,349	0	43	0	4,267	0	0	0	10,470	0
Harvard U.	40	16,016	9	76	4,200	0	10,340	0	0	0	1,391	0
U. California, Davis	41	15,436	1,045	251	3,973	0	4,772	0	161	0	5,142	92
U. California, Irvine	42	15,400	0	1,749	1,799	0	8,744	0	0	0	3,108	0
Colorado State U., Fort Collins	43	15,198	73	3,314	3,621	56	1,931	0	0	42	6,161	0
West Virginia U.	44	15,101	0	5,726	1,039	0	1,158	0	102	0	7,058	18
U. California, Santa Barbara	45	14,629	0	634	582	0	6,758	0	0	0	6,655	0
U. Notre Dame	46	14,028	132	0	200	0	6,686	0	39	0	6,971	0
U. Delaware	47	13,993	91	516	334	0	2,281	0	0	491	10,280	0
U. Virginia, Charlottesville	48	13,533	506	0	689	0	6,252	0	249	25	5,784	28
U. Georgia	49	12,910	0	169	11,798	36	444	0	166	0	93	204
Rensselaer Polytechnic Institute	50	12,839	350	97	87	285	1,743	0	0	0	9,995	282
Johns Hopkins U.[c]	51	12,481	802	368	18	29	6,374	0	8	0	4,882	0
Vanderbilt U. and Vanderbilt U. Medical Center	52	12,422	0	0	170	0	2,301	0	0	0	9,951	0
U. Kentucky	53	11,563	0	448	0	0	1,815	0	0	0	9,300	0
U. New Mexico	54	11,452	291	230	703	220	1,403	102	3	0	8,389	111
Rutgers, State U. New Jersey, New Brunswick	55	10,951	471	470	3,270	0	3,062	0	0	0	3,678	0
Yale U.	56	10,864	0	0	636	0	7,003	0	0	0	3,225	0
Florida State U.	57	10,788	402	257	0	63	6,218	0	13	74	3,707	54
U. Pittsburgh, Pittsburgh	58	10,781	31	150	172	0	2,815	0	0	0	7,613	0
U. Nebraska, Lincoln	59	10,041	0	0	4,427	0	3,355	0	0	0	2,235	24
U. Arizona	60	9,821	387	1,103	2,296	71	3,699	0	51	0	2,214	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Chicago	61	9,697	1,112	389	301	123	4,287	0	56	0	3,429	0
U. Pennsylvania	62	9,131	97	0	278	0	7,494	0	0	0	1,238	24
U. South Carolina, Columbia	63	8,836	97	69	1,887	99	474	0	817	0	5,393	0
U. California, Riverside	64	8,395	130	180	543	86	3,407	0	0	0	4,049	0
Kansas State U.	65	8,040	71	0	352	0	4,902	0	0	0	2,715	0
U. Southern California	66	8,018	2,477	447	699	0	2,191	0	0	0	2,204	0
Rice U.	67	7,998	1,269	203	290	141	3,600	0	0	0	2,495	0
Clemson U.	68	7,990	0	0	2,976	0	268	0	0	0	4,746	0
CUNY, Queens C.	69	7,815	0	59	7,627	0	129	0	0	0	0	0
U. Wyoming	70	7,547	13	1,422	3,942	0	185	0	0	478	1,426	81
U. Illinois, Chicago	71	7,080	41	117	885	0	3,686	0	0	0	2,351	0
Florida International U.	72	6,827	0	70	0	0	3,227	0	0	0	3,530	0
U. Connecticut	73	6,731	0	0	594	0	2,265	0	58	0	3,814	0
U. Central Florida	74	6,666	328	1,767	7	0	963	0	97	0	3,504	0
Washington U., Saint Louis	75	6,569	23	241	779	0	2,070	0	0	0	3,456	0
Boston U.	76	6,403	356	274	350	0	3,086	0	0	0	2,337	0
Louisiana State U., Baton Rouge	77	6,397	0	245	426	0	3,752	0	0	28	1,946	0
U. Houston	78	6,376	281	168	0	0	1,486	0	0	57	4,384	0
U. Arkansas, Fayetteville	79	6,344	271	533	142	0	924	0	0	0	4,474	0
Mississippi State U.	80	6,205	0	0	607	0	687	0	0	0	4,911	0
New Mexico State U.	81	6,159	222	726	245	0	705	0	0	0	4,261	0
U. Alabama, Birmingham	82	5,945	21	438	180	0	788	0	0	0	4,518	0
Brown U.	83	5,935	0	0	0	1,065	3,051	0	0	0	1,819	0
Indiana U., Bloomington	84	5,922	0	213	352	0	4,948	0	226	0	183	0
U. North Carolina, Chapel Hill	85	5,847	167	109	620	0	4,837	0	0	0	114	0
U. Massachusetts, Amherst	86	5,775	24	24	827	99	2,610	0	0	0	2,191	0
U. Oklahoma, Norman and Health Science Center	87	5,658	192	715	1,798	0	734	0	122	0	2,097	0
U. Missouri, Columbia	88	5,582	91	223	1,309	0	1,975	0	0	0	1,984	0
U. Oregon	89	5,534	2,672	0	79	0	2,673	2	0	0	0	108
U. Alaska, Fairbanks	90	5,453	0	1,490	492	0	107	0	0	61	3,303	0
U. Hawaii, Manoa	91	5,441	0	1,684	28	0	2,863	0	5	613	248	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Nevada, Reno	92	5,361	525	474	183	0	1,839	0	19	0	2,321	0
U. Idaho	93	5,330	125	15	2,338	0	211	96	12	0	2,521	12
Case Western Reserve U.	94	5,277	0	0	0	0	1,407	0	0	0	3,599	271
SUNY, U. Buffalo	95	5,248	288	0	127	138	625	0	0	0	4,057	13
Desert Research Institute	96	5,184	0	5,184	0	0	0	0	0	0	0	0
Catholic U. of America	97	5,027	0	0	0	0	5,027	0	0	0	0	0
Auburn U., Auburn	98	5,006	150	0	612	0	2,288	0	0	0	1,956	0
Temple U.	99	4,990	332	63	963	144	3,043	0	0	0	445	0
New Mexico Institute of Mining and Technology	100	4,968	72	147	41	0	62	0	0	0	4,438	208
Michigan Technological U.	101	4,788	0	498	0	0	0	0	32	0	4,258	0
Missouri U. of Science and Technology	102	4,746	159	0	0	0	174	0	0	0	4,413	0
George Washington U.	103	4,603	118	0	0	0	1,609	0	323	0	2,553	0
Boise State U.	104	4,568	11	99	158	112	1,252	0	77	0	2,859	0
U. Alabama, Tuscaloosa	105	4,496	47	0	0	0	1,954	0	0	0	2,495	0
New York U.	106	4,453	226	0	1,601	868	1,666	0	0	0	92	0
Old Dominion U.	107	4,368	33	384	0	109	2,967	0	0	0	730	145
U. California, Santa Cruz	108	4,289	42	209	0	0	4,038	0	0	0	0	0
U. Dayton	109	4,142	0	0	0	0	0	0	0	0	4,142	0
U. Kansas	110	4,046	0	875	86	18	1,812	0	0	0	1,255	0
Northeastern U.	111	4,041	0	0	0	0	2,667	0	0	0	1,374	0
Oklahoma State U., Stillwater	112	3,982	0	687	279	0	1,087	0	0	0	1,929	0
Lehigh U.	113	3,882	59	0	0	0	495	0	0	0	3,328	0
Texas Tech U.	114	3,878	53	372	115	0	809	0	0	0	2,486	43
Utah State U.	115	3,749	0	0	248	0	1,231	0	0	0	2,270	0
Illinois Institute of Technology	116	3,673	307	0	57	0	1,935	0	0	0	1,374	0
Montana State U., Bozeman	117	3,351	0	1,104	560	0	1,027	0	0	0	658	2
Idaho State U.	118	3,310	0	335	52	0	441	18	107	0	2,357	0
U. Iowa	119	3,249	0	0	0	0	2,814	0	0	0	435	0
U. Texas, Dallas	120	3,198	0	0	55	0	583	0	0	0	2,560	0
U. Massachusetts, Lowell	121	3,035	0	7	0	0	1,514	0	0	0	1,514	0
U. New Hampshire	122	2,999	0	966	224	0	1,010	0	26	0	773	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Norfolk State U.	123	2,920	2,920	0	0	0	0	0	0	0	0	0
Southern Methodist U.	124	2,899	0	163	0	147	1,464	0	0	0	1,125	0
U. Texas, Arlington	125	2,863	0	178	0	0	2,500	0	0	0	185	0
U. Nevada, Las Vegas	126	2,776	0	163	245	0	1,511	0	0	0	857	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	127	2,756	168	0	202	0	217	0	0	0	2,052	117
U. Maine	128	2,708	0	110	44	0	558	0	0	0	1,996	0
Northern Illinois U.	129	2,568	284	0	0	0	2,160	0	0	0	124	0
Ohio U.	130	2,560	0	545	0	0	1,955	0	0	0	60	0
Georgia State U.	131	2,518	0	114	0	0	2,404	0	0	0	0	0
U. Wisconsin-Milwaukee	132	2,367	0	0	956	457	449	0	0	0	505	0
Woods Hole Oceanographic Institution	133	2,359	0	678	0	0	0	0	0	0	1,681	0
U. North Texas, Denton	134	2,340	52	724	948	0	524	0	0	0	92	0
Drexel U.	135	2,338	0	0	293	0	619	0	0	0	1,426	0
Brigham Young U., Provo	136	2,334	0	49	0	0	317	0	0	0	1,968	0
U. North Carolina, Charlotte	137	2,325	79	0	0	0	0	0	0	0	2,246	0
U. Cincinnati	138	2,295	0	71	209	0	1,095	0	0	0	914	6
U. Texas, El Paso	139	2,279	7	106	0	0	446	0	0	0	1,720	0
Virginia Commonwealth U.	140	2,231	211	0	180	0	724	0	6	0	1,110	0
SUNY, Binghamton U.	141	2,229	0	0	0	0	1,784	0	11	0	434	0
U. South Florida, Tampa	142	2,180	0	0	0	25	796	0	0	0	1,184	175
Tufts U.	143	2,172	0	0	0	0	1,714	0	0	0	458	0
William & Mary	144	2,091	550	144	0	0	1,048	0	0	0	0	349
Wayne State U.	145	2,034	0	0	0	0	1,574	0	0	0	460	0
Syracuse U.	146	2,029	0	9	0	0	773	0	0	0	1,247	0
Emory U.	147	2,025	0	0	0	0	2,025	0	0	0	0	0
U. California, Merced	148	2,023	0	327	17	153	777	0	0	0	749	0
Cold Spring Harbor Laboratory	149	1,880	0	0	1,880	0	0	0	0	0	0	0
Northern Arizona U.	150	1,870	0	450	1,060	0	51	0	0	0	233	76
Central Michigan U.	151	1,812	0	0	0	0	1,812	0	0	0	0	0
South Dakota School of Mines and Technology	152	1,802	0	0	0	0	884	0	0	0	918	0
SUNY, Polytechnic Institute	153	1,788	0	0	0	0	0	0	0	0	1,788	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Florida A&M U.	154	1,772	0	663	0	0	1,054	0	0	0	55	0
Rochester Institute of Technology	155	1,767	123	0	0	0	586	0	0	0	1,058	0
Worcester Polytechnic Institute	156	1,706	0	0	0	0	0	0	0	0	1,706	0
North Carolina Agricultural and Technical State U.	157	1,653	332	0	5	0	107	0	0	0	1,209	0
Brandeis U.	158	1,540	0	0	0	0	1,540	0	0	0	0	0
U. Texas, San Antonio	159	1,503	3	0	44	0	1,022	0	94	0	334	6
San Diego State U.	160	1,500	0	6	490	14	494	0	0	0	496	0
Kent State U.	161	1,487	153	0	0	0	934	0	0	0	400	0
CUNY, City C.	162	1,380	0	107	0	0	647	0	0	0	626	0
U. South Carolina, Aiken	163	1,339	0	0	0	0	8	0	0	0	1,331	0
Tennessee Technological U.	164	1,326	128	0	0	0	291	0	0	0	907	0
U. Rhode Island	165	1,262	0	0	587	0	579	0	0	0	96	0
U. Louisiana, Lafayette	166	1,223	0	0	0	0	0	0	0	0	1,223	0
Georgetown U.	167	1,197	0	0	0	0	1,177	0	20	0	0	0
U. Vermont	168	1,175	0	0	0	0	77	0	0	0	1,098	0
U. Toledo	169	1,146	0	0	0	0	606	0	0	0	540	0
U. California, San Francisco	170	1,107	0	0	657	0	450	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	171	1,035	62	0	0	0	0	0	0	0	973	0
U. Miami	172	1,020	0	434	0	0	353	0	0	0	233	0
Baylor U.	173	998	0	202	28	0	602	0	0	0	166	0
U. Louisville	174	951	0	0	0	0	208	0	0	0	743	0
U. South Alabama	175	919	0	0	0	0	59	0	0	0	860	0
Portland State U.	176	871	0	175	24	0	0	0	0	0	672	0
Hampton U.	177	836	0	0	59	226	439	0	0	0	112	0
California Polytechnic State U., San Luis Obispo	178	832	0	43	0	0	335	0	0	0	454	0
Tulane U.	179	774	0	0	0	0	564	0	0	0	210	0
Naval Postgraduate School	180	772	0	199	0	0	80	0	331	0	0	162
South Carolina State U.	181	751 i	0 i	0 i	192 i	0 i	164 i	0 i	0 i	0 i	395 i	0 i
U. Southern Mississippi	182	748	0	21	0	0	694	0	33	0	0	0
U. Tulsa	183	675	4	0	0	0	0	0	0	0	671	0
U. Mississippi	184	654	0	0	0	0	654	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey Institute of Technology	185	645	0	0	0	0	156	0	0	0	415	74
Boston C.	186	620	0	0	0	0	620	0	0	0	0	0
Marquette U.	187	600	0	0	7	0	3	0	0	0	590	0
SUNY, U. Albany	188	555	0	203	0	3	349	0	0	0	0	0
Miami U.	189	545	0	0	267	0	232	0	0	0	46	0
George Mason U.	190	527	180	49	0	7	151	0	0	0	140	0
Tennessee State U.	191	524	0	0	27	0	0	0	0	0	497	0
Rutgers, State U. New Jersey, Newark	192	515	0	7	0	0	508	0	0	0	0	0
Morehouse C.	193	502	0	0	0	0	222	0	0	280	0	0
Bowling Green State U.	194	497	0	0	0	0	497	0	0	0	0	0
U. Michigan, Dearborn	195	476	0	0	0	0	0	0	0	0	476	0
U. Montana, Missoula	196	473	0	405	15	0	53	0	0	0	0	0
Pace U.	197	464	0	0	0	0	0	0	0	0	464	0
SUNY, C. of Environmental Science and Forestry	198	454	0	0	410	0	44	0	0	0	0	0
Cleveland State U.	199	436	0	0	0	0	334	69	0	0	33	0
CUNY, Hunter C.	200	424	0	0	0	0	424	0	0	0	0	0
U. Alabama, Huntsville	201	416	0	314	0	2	48	0	0	0	52	0
U. Akron	202	405	0	0	0	0	187	0	0	0	218	0
Florida Atlantic U.	203	393	0	0	67	0	0	0	0	0	326	0
West Texas A&M U.	204	372	8	32	0	0	0	0	0	0	332	0
U. Arkansas, Little Rock	205	365	266	0	0	0	0	0	0	0	99	0
SUNY, Geneseo	206	363	0	0	0	0	363	0	0	0	0	0
U. West Florida	207	353	89	0	79	0	0	0	0	0	185	0
Wake Forest U.	208	352	15	0	0	0	264	0	0	0	73	0
Saint Louis U.	209	311	78	233	0	0	0	0	0	0	0	0
Alabama A&M U.	210	310 i	8 i	0 i	45 i	1 i	117 i	0 i	1 i	0 i	136 i	2 i
Florida Institute of Technology	211	304	0	0	0	0	304	0	0	0	0	0
Stevens Institute of Technology	212	294	79	0	0	0	0	0	0	0	215	0
U. Maryland, Baltimore County	212	294	20	110	88	0	76	0	0	0	0	0
Morehead State U.	214	288	0	0	0	0	0	0	0	0	288	0
CUNY, Baruch C.	215	275	0	0	0	0	275	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Western Washington U.	216	274	274	0	0	0	0	0	0	0	0	0
Jackson State U.	217	271	0	0	0	0	271	0	0	0	0	0
U. South Dakota	218	270	0	0	0	0	270	0	0	0	0	0
Wichita State U.	218	270	0	0	0	0	17	0	0	0	253	0
Delaware State U.	220	269 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	194 i	75 i	0 i
North Dakota State U.	221	256	0	0	0	0	0	0	0	0	208	48
San Francisco State U.	221	256 i	0 i	0 i	0 i	0 i	225 i	0 i	0 i	0 i	31 i	0 i
U. New England	221	256	0	256	0	0	0	0	0	0	0	0
Claflin U.	224	247	247	0	0	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	225	246	0	0	0	0	0	0	0	0	246	0
Clark Atlanta U.	226	239	135	0	0	0	104	0	0	0	0	0
South Dakota State U.	227	234	0	0	102	0	0	0	0	0	132	0
San Jose State U.	228	230	0	0	16	0	94	0	0	0	120	0
Howard U.	229	225	0	0	0	0	0	0	0	0	225	0
California State U., Long Beach	230	221	0	20	0	0	201	0	0	0	0	0
California State U., East Bay	231	216	0	3	0	0	213	0	0	0	0	0
Missouri State U.	232	213	0	0	0	0	213	0	0	0	0	0
Air Force Institute of Technology	233	208	0	0	0	0	208	0	0	0	0	0
Creighton U.	233	208 i	7 i	4 i	10 i	1 i	186 i	0 i	0 i	0 i	0 i	0 i
Prairie View A&M U.	235	205	0	0	0	0	205	0	0	0	0	0
Montana Technological U.	236	199	0	11	0	0	0	0	0	0	188	0
Texas Christian U.	237	198	0	151	47	0	0	0	0	0	0	0
Alfred U.	238	193	0	0	0	0	0	0	0	0	193	0
Christopher Newport U.	238	193	0	0	0	0	193	0	0	0	0	0
California State U., Northridge	240	189	0	0	0	0	123	0	0	0	66	0
U. North Carolina, Wilmington	241	185	0	0	0	0	55	0	0	0	130	0
U. Tennessee, Chattanooga	241	185	0	0	0	0	0	0	0	23	162	0
Clarkson U.	243	184	0	0	0	0	0	0	0	0	184	0
Van Andel Research Institute	243	184	0	0	184	0	0	0	0	0	0	0
CUNY, York C.	245	181	0	0	0	0	181	0	0	0	0	0
Rhode Island C.	246	179	0	0	0	0	179	0	0	0	0	0
Southern Illinois U., Carbondale	247	177	0	0	0	0	139	0	0	0	38	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana U. Pennsylvania	248	175	0	0	0	0	175	0	0	0	0	0
CUNY, Lehman C.	249	170	0	0	0	0	170	0	0	0	0	0
Thomas Jefferson U.	250	159	0	0	159	0	0	0	0	0	0	0
Lewis and Clark C.	251	153	0	153	0	0	0	0	0	0	0	0
Scripps Research Institute	251	153	0	0	153	0	0	0	0	0	0	0
Eastern Washington U.	253	152	0	0	152	0	0	0	0	0	0	0
Texas A&M U.-Commerce	254	144	0	0	0	0	144	0	0	0	0	0
North Carolina Central U.	255	141	0	0	0	0	141	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	256	140	0	13	0	0	5	0	0	0	122	0
Clark U.	257	139	0	0	94	0	45	0	0	0	0	0
Savannah State U.	258	138	0	138	0	0	0	0	0	0	0	0
Oregon Health and Science U.	259	135	0	0	135	0	0	0	0	0	0	0
U. Missouri, Kansas City	260	130	0	0	0	0	130	0	0	0	0	0
U. Memphis	261	126	0	18	0	0	108	0	0	0	0	0
Indiana State U.	262	121	0	0	0	0	121	0	0	0	0	0
U. New Haven	263	118	0	0	0	0	0	0	0	0	118	0
Purdue U., Northwest	264	116	0	0	0	0	0	0	0	0	116	0
Florida Polytechnic U.	265	114	0	0	0	0	0	0	0	0	114	0
Virginia State U.	266	113	0	0	0	0	0	0	0	0	113	0
U. Hawaii, Hilo	267	109	0	0	109	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	267	109	0	0	109	0	0	0	0	0	0	0
Chapman U.	269	105	0	0	105	0	0	0	0	0	0	0
California State U., Fullerton	270	104	0	0	0	0	0	0	0	0	104	0
U. of the Virgin Islands	270	104	104	0	0	0	0	0	0	0	0	0
Fort Lewis C.	272	102	0	0	0	0	0	0	0	0	102	0
U. Texas Health Science Center, Tyler	273	101	0	0	101	0	0	0	0	0	0	0
U. Colorado Colorado Springs	274	99	43	0	0	0	0	0	0	0	56	0
California State U., Los Angeles	275	98	0	0	0	0	98	0	0	0	0	0
Oakland U.	275	98	0	0	0	0	49	0	0	0	49	0
U. Richmond	275	98	0	0	0	0	98	0	0	0	0	0
Bowie State U.	278	97	0	0	0	0	97	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
James Madison U.	278	97	0	82	0	15	0	0	0	0	0	0
U. Minnesota, Duluth	278	97	0	0	0	0	40	0	0	0	57	0
Oregon Institute of Technology	281	86	0	0	0	0	0	0	0	0	86	0
U. Northern Iowa	282	85	0	0	0	0	85	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	283	84	0	0	0	84	0	0	0	0	0	0
U. Texas of the Permian Basin	284	82	0	0	0	0	0	0	0	0	82	0
Benedict C.	285	81	46	21	0	0	0	0	0	0	14	0
West Virginia State U.	286	80	0	0	80	0	0	0	0	0	0	0
Wright State U.	287	76	0	0	0	0	63	13	0	0	0	0
Texas A&M U.-Corpus Christi	288	73	0	0	0	0	0	0	0	0	73	0
Louisiana Tech U.	289	72	0	0	0	0	0	0	0	0	72	0
Western Kentucky U.	290	70	0	0	0	0	70	0	0	0	0	0
U. Wisconsin-Oshkosh	291	69 i	1 i	7 i	7 i	0 i	23 i	0 i	0 i	0 i	31 i	0 i
CUNY, John Jay C. of Criminal Justice	292	68	0	0	0	0	0	68	0	0	0	0
U. North Florida	293	66	0	0	0	0	61	0	0	0	5	0
Alabama State U.	294	59	0	0	59	0	0	0	0	0	0	0
New School	294	59	0	0	0	0	0	0	0	0	59	0
Kennesaw State U.	296	58	0	0	0	0	40	0	0	0	18	0
Coastal Carolina U.	297	56	56	0	0	0	0	0	0	0	0	0
Texas State U.	297	56	0	0	55	0	0	0	0	0	1	0
Western Illinois U.	297	56	0	0	56	0	0	0	0	0	0	0
Bryn Mawr C.	300	55	0	0	0	0	55	0	0	0	0	0
Milwaukee School of Engineering	300	55	0	0	0	0	0	0	0	0	55	0
Texas A&M U.-Kingsville	300	55	0	0	0	0	0	0	0	37	18	0
Davidson C.	303	54	0	0	0	10	44	0	0	0	0	0
Embry-Riddle Aeronautical U.	303	54	0	0	0	0	0	0	0	0	54	0
U. Wisconsin-Green Bay	305	53 i	1 i	5 i	7 i	0 i	17 i	0 i	0 i	0 i	22 i	1 i
Alcorn State U.	306	52	0	0	0	0	0	0	0	0	52	0
U. Massachusetts, Boston	307	50	13	0	0	0	37	0	0	0	0	0
Marshall U.	308	49	0	0	0	0	49	0	0	0	0	0
U. Wisconsin-Eau Claire	309	46	0	0	0	0	46	0	0	0	0	0
St. Edward's U.	310	45	0	0	0	0	45	0	0	0	0	0

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Orleans	311	43	0	0	0	0	43	0	0	0	0	0
American U.	312	42	0	0	0	42	0	0	0	0	0	0
Saint Michael's C.	312	42	0	0	0	0	42	0	0	0	0	0
Hope C.	314	40	0	0	0	0	40	0	0	0	0	0
East Carolina U.	315	34	0	34	0	0	0	0	0	0	0	0
Albany State U.	316	32	0	0	32	0	0	0	0	0	0	0
Biola U.	316	32 i	1 i	1 i	1 i	0 i	16 i	0 i	0 i	0 i	12 i	1 i
Lamar U.	318	31	0	0	0	0	0	0	0	0	31	0
Texas A&M International U.	319	28	0	0	0	0	0	0	0	0	28	0
Appalachian State U.	320	27	0	0	27	0	0	0	0	0	0	0
New York Medical C.	320	27	0	0	27	0	0	0	0	0	0	0
C. Charleston	322	24	0	0	24	0	0	0	0	0	0	0
Liberty U.	323	23	0	0	0	0	0	0	0	0	23	0
U. Texas Rio Grande Valley	323	23	0	0	23	0	0	0	0	0	0	0
U. San Diego	325	22	0	0	0	0	0	0	0	0	22	0
California State U., Chico	326	21	0	0	21	0	0	0	0	0	0	0
Mercyhurst U.	326	21 i	1 i	1 i	3 i	0 i	16 i	0 i	0 i	0 i	0 i	0 i
Swarthmore C.	328	20	0	0	0	0	20	0	0	0	0	0
U. Massachusetts, Dartmouth	328	20	0	0	0	0	9	0	0	0	11	0
East Tennessee State U.	330	17	0	0	0	0	17	0	0	0	0	0
CUNY, C. Staten Island	331	16	0	0	0	0	0	0	0	0	16	0
Lipscomb U.	332	15 i	0 i	0 i	0 i	0 i	11 i	0 i	1 i	0 i	3 i	0 i
DePaul U.	333	14	5	9	0	0	0	0	0	0	0	0
Wheaton C., Wheaton	333	14	0	14	0	0	0	0	0	0	0	0
Smith C.	335	13	13	0	0	0	0	0	0	0	0	0
U. Alaska, Southeast	336	12	0	0	12	0	0	0	0	0	0	0
U. Washington, Tacoma	336	12	0	12	0	0	0	0	0	0	0	0
Georgia Southern U.	338	11	0	0	0	0	0	0	0	0	11	0
Rowan U.	338	11	0	0	0	0	0	0	0	0	11	0
U. Maryland Center for Environmental Science	340	9	0	9	0	0	0	0	0	0	0	0
Ball State U.	341	8	0	0	0	0	0	0	0	0	0	8

TABLE 60

Federally financed higher education R&D expenditures, financed by the Department of Energy, ranked by DOE R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	DOE R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alaska, Anchorage	341	8	0	8	0	0	0	0	0	0	0	0
U. Nebraska, Omaha	341	8	0	0	0	0	0	0	0	0	0	8
U. Wisconsin-Platteville	341	8 i	0 i	1 i	1 i	0 i	1 i	0 i	0 i	0 i	5 i	0 i
Keck Graduate Institute	345	4 i	1 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	2 i	0 i
Bucknell U.	346	3 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	3 i	0 i
California State U., Dominguez Hills	346	3	0	0	0	0	3	0	0	0	0	0
Rhode Island School of Design	348	2 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i

i = imputed.

DOE = Department of Energy; nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $1,972 thousand in R&D expenditures financed by DOE in FY 2020.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	25,397,976	126,088	51,293	22,249,750	65,383	599,475	578,882	404,318	103,213	936,241	283,333
Johns Hopkins U.[a]	1	693,055	3,005	9,198	634,323	24	4,171	4,328	126	435	37,283	162
U. Washington, Seattle	2	673,867	1,957	2,116	603,163	1,613	13,350	5,190	2,535	0	25,810	18,133
U. California, San Francisco	3	624,363	0	0	591,846	0	32,517	0	0	0	0	0
U. Michigan, Ann Arbor	4	613,008	1,820	26	507,854	188	10,075	4,599	66,519	111	19,485	2,331
U. Pennsylvania	5	592,887	419	9	556,452	1,312	8,110	4,734	5,640	0	14,350	1,861
U. Pittsburgh, Pittsburgh	6	587,352	2,447	5,818	541,348	1,233	4,214	14,307	1,741	1,280	11,272	3,692
Columbia U. in the City of New York	7	579,119	294	1,085	538,293	291	4,982	3,481	31	0	18,248	12,414
Duke U.	8	570,531	1,601	0	510,575	1,913	3,612	5,712	15,449	10	31,154	505
U. North Carolina, Chapel Hill	9	556,113	8,065	220	491,912	710	9,177	12,398	14,625	0	9,124	9,882
Stanford U.	10	551,284	317	185	502,177	1,434	19,610	8,601	146	0	18,787	27
Yale U.	11	507,423	82	0	486,932	456	6,947	4,611	180	0	7,911	304
Washington U., Saint Louis	12	506,937	521	0	470,418	46	8,955	4,432	78	0	8,156	14,331
U. California, Los Angeles	13	466,272	1,596	0	427,090	293	8,676	10,485	4,612	4,010	6,658	2,852
Harvard U.	14	452,679	5,289	13,978	367,301	14,657	13,921	1,547	19,567	248	15,615	556
Icahn School of Medicine at Mount Sinai	15	449,744	0	0	449,744	0	0	0	0	0	0	0
U. California, San Diego	16	442,934	835	2,050	383,230	0	15,378	9,182	0	0	31,791	468
Vanderbilt U. and Vanderbilt U. Medical Center	17	428,884	0	0	391,789	55	9,683	5,029	0	0	16,064	6,264
Emory U.	18	416,675	63	406	399,944	698	3,847	3,437	249	0	7,237	794
Northwestern U.	19	402,269	0	0	369,573	0	5,917	1,370	5,182	5,780	13,563	884
New York U.	20	368,652	1,031	0	333,165	1,080	5,194	19,414	121	0	1,015	7,632
U. Wisconsin-Madison	21	364,173	50	10	298,792	168	7,057	5,177	18,140	20,857	13,122	800
U. Southern California	22	348,029	7,297	0	296,397	105	2,362	2,835	22,471	0	10,809	5,753
U. Maryland[b]	23	339,488	1,256	620	300,698	75	2,184	5,647	7,942	0	13,703	7,363
U. Minnesota, Twin Cities	24	337,054	938	292	280,247	681	5,930	18,414	9,901	84	15,471	5,096
U. Alabama, Birmingham	25	332,215	385	0	320,707	0	364	4,108	113	0	5,407	1,131
Case Western Reserve U.	26	323,192	34	0	308,215	67	1,228	575	1,821	88	11,092	72
U. Colorado Denver and Anschutz Medical Campus	27	319,196	31	214	311,933	57	574	1,455	47	0	2,954	1,931
Cornell U.	28	316,779	348	0	272,494	44	23,798	2,882	2,555	0	14,269	389

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio State U.	29	309,204	435	187	268,071	327	12,013	3,910	2,432	4,120	7,492	10,217
Oregon Health and Science U.	30	304,884	0	0	295,766	0	0	0	0	0	9,118	0
Indiana U., Bloomington	31	265,696	1,313	0	248,512	210	6,148	4,531	2,545	413	1,592	432
Baylor C. of Medicine	32	262,649	0	0	262,649	0	0	0	0	0	0	0
Boston U.	33	261,969	68	14	214,092	1,688	6,362	11,091	621	479	25,520	2,034
U. Chicago	34	258,415	8,461	0	223,005	531	11,632	3,446	4,713	0	3,952	2,675
U. Cincinnati	35	252,177	0	0	248,146	7	550	970	800	0	995	709
Scripps Research Institute	36	236,093	0	0	236,093	0	0	0	0	0	0	0
U. California, Davis	37	235,290	0	11	210,333	260	5,041	895	7,530	0	11,146	74
U. Texas Southwestern Medical Center	38	230,283	0	0	230,283	0	0	0	0	0	0	0
Texas A&M U., College Station and Health Science Center	39	230,038	919	1,987	205,837	1,442	4,199	2,191	4,447	526	7,843	647
U. Utah	40	215,237	5,694	0	186,559	349	4,157	1,812	4,442	0	5,901	6,323
U. Florida	41	211,978	1,450	0	188,048	281	2,129	6,836	1,570	0	8,868	2,796
U. Iowa	42	207,042	560	0	192,229	0	868	6,625	563	0	4,661	1,536
Albert Einstein C. of Medicine	43	199,660	0	0	199,660	0	0	0	0	0	0	0
U. Virginia, Charlottesville	44	188,838	428	0	170,520	0	3,884	3,429	53	0	7,519	3,005
Rutgers, State U. New Jersey, New Brunswick	45	186,903	0	388	176,206	341	1,046	3,152	142	0	4,131	1,497
U. Massachusetts, Medical School	46	183,561	0	0	183,561	0	0	0	0	0	0	0
U. Rochester	47	180,292	205	0	165,588	0	2,070	3,880	0	3,568	4,981	0
U. Texas M. D. Anderson Cancer Center	48	176,515	0	0	153,991	8,779	7,853	3,013	2,879	0	0	0
U. Illinois, Chicago	49	170,807	614	0	159,444	24	2,051	1,162	52	307	6,087	1,066
U. Miami	50	167,054	91	591	156,515	0	38	8,333	440	0	1,046	0
U. California, Irvine	51	150,368	1,727	0	128,022	541	5,324	1,669	419	0	8,388	4,278
U. Arizona	52	148,731	682	0	136,396	323	4,423	1,497	1,133	202	3,811	264
Wake Forest U.	53	144,220	0	0	143,870	63	221	33	0	0	0	33
U. Kentucky	54	142,692	43	195	134,765	591	1,146	1,989	459	218	2,550	736
Pennsylvania State U., University Park and Hershey Medical Center	55	142,227	661	106	95,268	1,311	5,358	20,682	7,387	0	10,608	846
U. California, Berkeley	56	138,471	0	1,218	89,074	47	6,972	7,424	3,179	22,939	7,535	83

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Medical U. South Carolina	57	138,140	0	0	138,140	0	0	0	0	0	0	0
Massachusetts Institute of Technology	58	134,831	11,862	296	62,471	0	10,692	0	985	143	48,382	0
Brown U.	59	126,373	2,281	229	90,759	368	322	7,174	17,002	6,041	1,783	414
U. Kansas	60	124,882	74	0	101,775	0	1,676	4,640	1,951	132	4,823	9,811
Temple U.	61	121,646	31	0	110,475	286	2,189	5,030	375	36	1,883	1,341
U. Texas Health Science Center, Houston	62	120,716	0	0	120,716	0	0	0	0	0	0	0
George Washington U.	63	119,565	355	0	112,969	12	636	1,940	422	99	2,809	323
Medical C. Wisconsin	64	118,331	0	0	115,061	0	0	0	0	0	3,270	0
SUNY, U. Buffalo	65	115,134	1,028	14	98,101	0	1,067	3,207	966	0	10,307	444
Virginia Commonwealth U.	66	114,538	219	0	93,391	57	243	8,444	146	0	3,869	8,169
Dartmouth C. and Dartmouth Hitchcock Medical Center	67	106,809	396	290	89,431	259	1,486	5,746	83	0	8,865	253
U. Texas Medical Branch	68	105,937	0	0	105,661	0	0	0	0	0	276	0
U. South Florida, Tampa	69	101,327	68	0	86,148	0	2,342	607	8,156	0	3,335	671
U. Nebraska, Medical Center	70	97,199	0	0	97,199	0	0	0	0	0	0	0
U. Connecticut	71	93,640	521	56	78,272	156	1,216	8,101	2,025	0	2,283	1,010
Wayne State U.	72	92,303	0	0	82,167	11	3,757	801	73	527	1,561	3,406
U. Texas Health Science Center, San Antonio	73	91,671	0	0	91,671	0	0	0	0	0	0	0
U. New Mexico	74	91,018	35	0	82,984	75	722	5,092	1,033	0	799	278
Tulane U.	75	88,504	53	0	84,605	182	293	906	104	0	2,361	0
U. Texas, Austin	76	88,179	650	8	53,310	309	5,097	5,549	6,838	275	11,354	4,789
U. Georgia	77	81,511	154	0	64,557	471	2,183	12,313	105	0	796	932
Rockefeller U.	78	81,391	0	0	78,676	62	2,653	0	0	0	0	0
California Institute of Technology	79	81,136	452	0	59,583	0	9,499	0	0	0	7,018	4,584
Michigan State U.	80	80,965	163	0	61,946	1,200	2,884	7,165	673	115	5,320	1,499
Tufts U.	81	78,768	142	66	65,915	10	2,368	808	462	1,125	7,411	461
U. Illinois, Urbana-Champaign	82	78,416	588	43	33,696	36	12,276	5,355	59	0	22,251	4,112
SUNY, Stony Brook U.	83	74,364	629	0	60,770	1,732	3,359	3,163	201	360	3,703	447
U. Oklahoma, Norman and Health Science Center	84	73,735	17	51	63,109	0	7,211	490	1,455	0	1,259	143

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Louisville	85	73,563	0	0	67,354	73	501	428	84	0	1,553	3,570
U. Missouri, Columbia	86	73,447	1,031	0	61,141	93	1,076	5,525	16	0	1,338	3,227
Thomas Jefferson U.	87	70,883	0	0	70,883	0	0	0	0	0	0	0
U. Vermont	88	69,411	0	0	66,774	0	613	1,633	29	0	362	0
U. Arkansas for Medical Sciences	89	68,271	0	0	68,271	0	0	0	0	0	0	0
Georgetown U.	90	68,060	0	0	61,021	0	1,269	865	4,400	505	0	0
Purdue U., West Lafayette	91	66,259	1,057	0	42,661	471	5,034	4,408	1,093	0	10,653	882
Rush U.	92	64,886	0	0	62,981	0	0	1,905	0	0	0	0
Arizona State U.	93	59,939	599	0	32,425	1,143	3,428	6,301	3,793	340	8,248	3,662
Princeton U.	94	58,191	482	0	42,377	0	5,787	3,929	2,000	0	3,616	0
U. Colorado Boulder	95	56,267	378	0	32,653	466	1,129	9,830	4,223	632	6,761	195
Georgia State U.	96	54,675	133	0	34,909	670	5,948	2,682	4,299	0	0	6,034
U. South Carolina, Columbia	97	54,660	520	0	43,421	165	0	4,490	4,515	0	323	1,226
Augusta U.	98	52,952	0	0	52,884	0	0	68	0	0	0	0
Drexel U.	99	51,587	174	0	43,786	0	0	1,576	0	39	4,020	1,992
U. Mississippi	100	51,423	0	0	51,085	0	92	0	34	0	0	212
Cold Spring Harbor Laboratory	101	50,792	0	0	50,792	0	0	0	0	0	0	0
Washington State U.	102	49,065	860	0	38,966	0	1,080	1,225	1,281	0	1,111	4,542
SUNY, U. Albany	103	48,378	0	0	42,532	0	2,067	1,003	2,512	0	230	34
Cleveland State U.	104	47,469	0	0	39,292	106	307	0	227	0	7,516	21
Colorado State U., Fort Collins	105	47,156	0	31	34,279	647	1,353	1,842	3,031	2,865	2,972	136
U. Hawaii, Manoa	106	46,924	0	111	45,682	0	449	252	183	78	40	129
Northeastern U.	107	44,959	1,728	33	16,896	0	4,879	6,051	825	0	14,212	335
U. Tennessee, Health Science Center	108	44,904	0	0	44,904	0	0	0	0	0	0	0
Florida State U.	109	43,151	212	0	27,759	605	2,866	5,464	142	313	3,168	2,622
U. Oregon	110	42,851	7	57	26,268	0	1,477	13,060	21	0	0	1,961
Georgia Institute of Technology	111	42,077	4,138	0	4,430	276	3,352	489	10,116	0	16,826	2,450
U. Delaware	112	41,787	1,720	5	22,853	0	4,945	4,627	1,349	667	5,214	407
Virginia Polytechnic Institute and State U.	113	38,223	360	0	28,713	451	735	594	1,192	27	6,144	7
U. California, Santa Cruz	114	37,603	0	3,002	10,319	0	6,835	56	0	0	17,391	0
Florida International U.	115	36,501	168	0	17,056	0	2,279	14,669	742	0	1,579	8

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
North Carolina State U.	116	35,769	367	904	16,317	2,713	4,271	494	1,053	657	8,847	146
Carnegie Mellon U.	117	35,063	9,212	105	8,115	289	1,741	5,719	1,875	510	7,477	20
U. Massachusetts, Amherst	118	34,939	512	0	20,515	537	5,845	4,380	485	327	2,318	20
U. Houston	119	33,269	72	0	16,103	168	1,611	5,360	224	74	8,080	1,577
Brandeis U.	120	32,395	114	0	20,556	0	1,667	3,051	6,490	0	0	517
West Virginia U.	121	32,046	0	88	28,981	69	863	1,169	90	0	768	18
Louisiana State U., Baton Rouge	122	31,189	0	54	29,182	5	1,172	66	25	0	685	0
Louisiana State U., Health Sciences Center, New Orleans	123	30,914	0	0	30,914	0	0	0	0	0	0	0
U. California, Riverside	124	30,883	0	348	22,922	275	3,370	1,740	230	652	1,175	171
U. Montana, Missoula	125	30,733	307	0	22,691	27	4,335	314	47	0	0	3,012
Saint Louis U.	126	26,777	0	67	25,145	142	867	256	0	0	215	85
San Diego State U.	127	26,500	0	0	11,992	10	1,169	12,738	50	0	0	541
U. Nevada, Reno	128	26,180	0	0	21,081	57	714	2,138	52	0	1,945	193
U. Nebraska, Lincoln	129	25,370	9	0	11,674	285	3,436	1,971	6,146	0	1,829	20
U. Notre Dame	130	25,188	292	0	8,338	190	9,903	2,672	111	515	2,861	306
SUNY, Downstate Medical Center	131	25,020	0	0	25,020	0	0	0	0	0	0	0
U. Texas, Dallas	132	24,730	212	0	13,991	84	2,410	0	77	0	7,927	29
Oregon State U.	133	24,499	0	0	21,454	189	348	27	288	0	2,193	0
U. Puerto Rico, Medical Sciences Campus	134	24,411	0	0	24,411	0	0	0	0	0	0	0
Iowa State U.	135	23,498	134	0	19,163	0	1,133	34	197	0	2,551	286
U. North Texas, Health Science Center	136	23,466	0	0	23,426	0	0	0	40	0	0	0
Morehouse School of Medicine	137	22,489	0	0	22,489	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	138	21,976	0	0	21,976	0	0	0	0	0	0	0
Montana State U., Bozeman	139	21,729	0	0	14,080	362	2,329	114	63	3,892	741	148
CUNY, Hunter C.	140	21,271	1,358	0	4,336	44	2,070	12,395	0	0	0	1,068
Howard U.	141	20,121	0	0	14,239	0	3,659	563	137	0	1,052	471
Loyola U., Chicago	142	20,003	74	0	18,419	0	235	648	20	0	0	607
U. New Hampshire	143	19,871	0	0	13,214	0	0	273	4,886	0	710	788
U. Rhode Island	144	19,303	64	0	15,612	0	3	705	231	2,567	121	0
U. Central Florida	145	19,042	531	0	11,035	0	495	2,729	162	0	2,899	1,191

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Rice U.	146	18,786	296	0	4,736	1,101	1,088	1,651	129	0	9,785	0
Indiana U.-Purdue U., Indianapolis	147	18,771	613	0	10,231	0	326	3,950	1,231	579	1,606	235
U. Louisiana, Lafayette	148	18,677	0	0	18,234	0	50	0	0	0	0	393
New Jersey Institute of Technology	149	17,730	54	0	14,175	29	191	0	0	0	3,061	220
Van Andel Research Institute	150	17,588	0	0	17,588	0	0	0	0	0	0	0
U. California, Santa Barbara	151	17,409	0	300	8,135	0	3,987	1,951	0	0	2,895	141
Boston C.	152	16,628	163	0	6,688	0	4,318	1,746	185	0	0	3,528
Uniformed Services U. of the Health Sciences	153	16,526	0	0	16,526	0	0	0	0	0	0	0
U. Denver	154	16,293	0	0	2,139	0	2,088	3,954	0	0	547	7,565
Auburn U., Auburn	155	16,001	0	0	11,086	0	311	401	2,354	169	1,497	183
U. Maryland, Baltimore County	156	15,355	52	54	6,931	6	738	911	5,476	0	1,133	54
Clemson U.	157	15,201	0	0	7,141	13	999	0	64	0	6,963	21
U. North Dakota	158	15,079	0	0	14,621	0	133	228	0	0	97	0
Kansas State U.	159	15,066	0	0	10,432	0	1,324	2,318	0	427	550	15
U. Texas, El Paso	160	14,008	0	0	7,372	1,045	2,611	1,208	453	0	450	869
Loma Linda U.	161	13,112 i	0 i	0 i	13,112 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Texas, San Antonio	162	13,096	55	0	9,266	0	793	602	494	0	1,659	227
U. Toledo	163	13,084	0	44	11,409	0	1,272	43	0	0	186	130
U. Wyoming	164	13,053	0	0	11,864	358	0	496	0	319	0	16
U. Missouri, Kansas City	165	12,774	0	0	12,369	0	112	288	0	0	5	0
Albany Medical C.	166	12,583	0	0	12,583	0	0	0	0	0	0	0
Meharry Medical C.	167	12,317	0	0	12,317	0	0	0	0	0	0	0
U. South Alabama	168	12,181	0	198	11,814	32	25	0	0	0	107	5
Texas Tech U., Health Sciences Center	169	12,126	0	0	12,126	0	0	0	0	0	0	0
New York Medical C.	170	11,638	0	0	11,638	0	0	0	0	0	0	0
Illinois Institute of Technology	171	11,470	0	0	7,891	0	175	0	0	0	3,404	0
East Carolina U.	172	11,380	0	0	10,740	0	517	14	0	0	61	48
Rensselaer Polytechnic Institute	173	11,326	406	0	2,963	108	842	21	0	0	4,687	2,299
Ponce Health Sciences U.	174	11,228	0	0	11,228	0	0	0	0	0	0	0
Portland State U.	175	11,165	0	0	7,527	133	1,177	644	246	0	0	1,438

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mississippi State U.	176	11,112	0	0	4,531	0	298	249	5,686	28	304	16
Louisiana State U., Health Sciences Center, Shreveport	177	11,080	0	0	11,080	0	0	0	0	0	0	0
U. Nevada, Las Vegas	178	10,929	0	0	9,238	0	1,066	209	39	215	98	64
U. Massachusetts, Lowell	179	10,650	2,322	0	4,060	0	617	29	1,408	0	2,187	27
U. Massachusetts, Boston	180	10,419	141	0	3,376	2	562	1,294	1,438	0	0	3,606
Northeast Ohio Medical U.	181	10,245	0	0	10,245	0	0	0	0	0	0	0
San Francisco State U.	182	10,040 i	97 i	0 i	7,199 i	0 i	124 i	315 i	1,265 i	975 i	0 i	65 i
Northern Arizona U.	183	9,638	0	0	9,010	0	184	0	32	16	380	16
U. Wisconsin-Milwaukee	184	9,505	0	441	3,536	0	189	3,067	1,874	0	397	1
U. Texas, Arlington	185	9,470	26	72	6,014	39	1,172	46	0	0	1,901	200
Utah State U.	186	9,460	0	0	5,480	0	484	2,286	691	0	326	193
George Mason U.	187	9,327	116	0	3,855	54	0	750	2,159	0	2,132	261
Oklahoma State U., Stillwater	188	9,307	66	0	5,173	0	330	2,692	98	5	580	363
Syracuse U.	189	9,089	231	0	2,730	0	1,421	1,585	798	0	341	1,983
Charles R. Drew U. of Medicine and Science	190	8,989	0	0	8,989	0	0	0	0	0	0	0
U. Idaho	191	8,897	5	0	7,394	2	0	0	0	1,205	291	0
Marshall U.	192	8,770	163	0	8,607	0	0	0	0	0	0	0
California State U., Northridge	193	8,733	0	111	4,142	0	2,048	320	408	1,504	145	55
CUNY, City C.	194	8,554	0	0	3,082	0	1,684	579	0	0	3,209	0
U. Tennessee, Knoxville[c]	195	8,533	0	0	4,930	2	826	1,082	197	141	921	434
U. North Carolina, Greensboro	196	8,494	2	0	4,149	0	1,960	1,566	90	0	0	727
SUNY, Binghamton U.	197	8,308	5	0	1,475	0	2,308	3,405	0	0	1,115	0
Marquette U.	198	8,251	171	0	4,406	315	925	202	0	0	2,077	155
California State U., Long Beach	199	8,232	42	0	3,309	0	2,006	1,174	271	196	1,149	85
North Carolina Central U.	200	8,172	0	0	6,607	0	0	0	0	0	1,455	110
U. Alaska, Fairbanks	201	8,139	0	0	4,902	145	0	367	758	1,039	0	928
Rutgers, State U. New Jersey, Newark	202	8,018	657	0	5,860	0	135	628	0	0	0	738
U. South Dakota	203	8,010	0	0	7,838	0	0	80	0	0	18	74
Florida Atlantic U.	204	7,931	527	0	5,176	0	469	1,074	25	0	644	16
U. Memphis	205	7,826	1,484	1	3,133	0	292	1,021	373	0	733	789

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Health Science Center, Tyler	206	7,615	0	0	7,615	0	0	0	0	0	0	0
New Mexico State U.	207	7,544	0	0	3,699	0	3,315	194	5	16	315	0
U. Alabama, Tuscaloosa	208	7,514	0	0	2,769	0	420	818	113	0	682	2,712
Rosalind Franklin U. of Medicine and Science	209	7,511	0	0	7,428	0	0	83	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	210	7,506	0	0	6,228	0	0	1,278	0	0	0	0
Rowan U.	211	7,469	0	0	6,117	0	80	397	0	0	875	0
Wright State U.	212	7,076	271	0	6,328	12	290	17	0	0	158	0
Eastern Virginia Medical School	213	6,864	0	0	6,864	0	0	0	0	0	0	0
Brigham Young U., Provo	214	6,857	0	0	2,844	0	1,437	179	72	0	2,203	122
Xavier U. Louisiana	215	6,853	0	0	1,993	0	4,832	28	0	0	0	0
North Dakota State U.	216	6,822	0	0	5,379	0	438	792	174	0	39	0
Kent State U.	217	6,507	0	0	2,238	0	570	2,409	424	8	473	385
East Tennessee State U.	218	6,405	0	0	6,336	0	0	40	14	0	15	0
U. Southern Mississippi	219	6,315	72	3	5,921	0	96	0	87	0	0	136
Southern Illinois U., Carbondale	220	6,021	0	0	5,356	0	513	114	0	18	20	0
U. Texas Rio Grande Valley	221	5,932	0	0	5,828	0	78	0	0	0	0	26
Texas Tech U.	222	5,923	0	0	1,456	8	1,790	375	0	0	1,999	295
Creighton U.	223	5,599 i	30 i	0 i	5,222 i	16 i	145 i	85 i	57 i	0 i	0 i	44 i
Old Dominion U.	224	5,519	186	0	2,289	44	472	703	409	0	890	526
Florida A&M U.	225	5,428	0	0	5,256	0	0	172	0	0	0	0
Wichita State U.	226	5,412	0	0	2,207	0	404	154	0	0	0	2,647
U. California, Merced	227	5,330	0	0	3,264	311	544	15	383	0	813	0
U. North Carolina, Charlotte	228	5,158	2,157	48	1,535	75	1,092	0	0	0	161	90
Ohio U.	229	5,003	0	0	4,203	0	170	294	28	0	308	0
Delaware State U.	230	4,775 i	0 i	0 i	4,078 i	60 i	0 i	0 i	0 i	0 i	614 i	23 i
U. Puerto Rico, Rio Piedras	231	4,732	0	0	1,682	0	161	0	36	2,659	0	194
Boise State U.	232	4,719	68	46	1,971	17	264	154	30	36	2,131	2
Rochester Institute of Technology	233	4,649	775	0	453	75	175	38	0	0	1,528	1,605
Lehigh U.	234	4,605	15	0	2,302	0	832	252	0	0	1,189	15
Morgan State U.	235	4,554	45	0	4,334	0	175	0	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Chapman U.	236	4,377	0	0	3,422	0	113	842	0	0	0	0
Worcester Polytechnic Institute	237	4,317	694	0	478	0	912	0	0	0	2,150	83
U. Detroit Mercy	238	4,138	0	0	3,989	0	0	124	0	0	0	25
U. New England	239	3,951	0	0	3,951	0	0	0	0	0	0	0
U. Nebraska, Omaha	240	3,915	15	0	3,234	24	0	335	195	0	6	106
Texas State U.	241	3,813	0	0	899	0	506	94	1,463	0	0	851
U. Arkansas, Fayetteville	242	3,805	0	0	770	0	646	56	102	0	1,359	872
South Dakota State U.	243	3,551	0	0	2,851	0	618	23	26	0	20	13
Western U. of Health Sciences	244	3,445	0	0	3,014	0	0	0	0	0	0	431
CUNY, Advanced Science Research Center	245	3,417	0	0	3,085	0	0	0	0	0	332	0
Tuskegee U.	246	3,394	0	0	1,545	0	0	0	1,849	0	0	0
U. Missouri, Saint Louis	247	3,329	0	0	2,366	138	705	48	72	0	0	0
American U.	248	3,228	0	0	243	0	36	702	2,094	153	0	0
Southern Methodist U.	249	3,207	146	0	1,061	27	597	1,150	0	0	0	226
Miami U.	250	3,187	0	0	2,781	0	0	343	0	0	63	0
California State U., Los Angeles	251	3,161	0	0	450	0	2,709	0	0	0	0	2
MGH Institute of Health Professions	252	3,014	0	0	3,014	0	0	0	0	0	0	0
Baylor U.	253	3,007	0	208	1,970	0	320	384	0	0	0	125
U. Alaska, Anchorage	254	2,987	0	0	1,849	0	0	181	584	312	0	61
Alabama A&M U.	255	2,969 i	14 i	0 i	2,607 i	7 i	107 i	86 i	61 i	0 i	46 i	41 i
U. of Health Sciences and Pharmacy in St. Louis	256	2,966	0	0	2,966	0	0	0	0	0	0	0
CUNY, Queens C.	257	2,960	0	0	1,644	0	252	1,005	59	0	0	0
Michigan Technological U.	258	2,894	24	91	833	64	382	97	0	0	1,403	0
DePaul U.	259	2,805	0	0	218	0	0	2,581	6	0	0	0
Colorado School of Mines	260	2,785	0	37	320	27	0	0	13	0	2,311	77
U. Central del Caribe	261	2,743	0	0	2,743	0	0	0	0	0	0	0
Duquesne U.	262	2,714	0	0	2,393	25	150	0	0	0	146	0
Jackson State U.	263	2,660	0	189	1,056	17	1,015	25	0	358	0	0
Nova Southeastern U.	264	2,591	0	34	2,557	0	0	0	0	0	0	0
Clark Atlanta U.	265	2,570	0	0	2,486	0	0	0	0	0	0	84

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Brooklyn C.	266	2,529	0	0	1,041	0	461	1,027	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	267	2,520	0	0	1,606	0	0	88	0	0	108	718
U. Maine	268	2,495	21	0	1,122	0	311	243	6	127	383	282
Oklahoma State U., Center for Health Sciences	269	2,421	0	0	2,334	0	0	87	0	0	0	0
Catholic U. of America	270	2,341	0	0	1,032	0	27	34	0	0	1,156	92
Texas Christian U.	271	2,291	0	0	181	0	213	103	113	1,681	0	0
Fordham U.	272	2,238	0	0	534	0	213	1,023	62	0	0	406
California State U., San Marcos	273	2,208	74	0	347	81	61	608	500	537	0	0
Oakland U.	274	2,175	49	0	1,359	0	743	24	0	0	0	0
U. Southern Maine	275	2,098	0	0	79	0	0	0	2,019	0	0	0
U. Guam	276	2,088	0	0	1,934	0	0	0	154	0	0	0
U. North Texas, Denton	277	2,057	210	0	467	73	323	878	23	0	61	22
San Jose State U.	278	2,047	0	0	870	0	913	0	0	0	162	102
Eastern Michigan U.	279	1,947	0	0	1,907	37	0	0	3	0	0	0
Albany C. of Pharmacy and Health Sciences	280	1,938	0	0	1,938	0	0	0	0	0	0	0
Wellesley C.	281	1,894	113	0	871	0	175	187	534	0	0	14
U. North Florida	282	1,854	0	0	18	0	0	0	0	0	8	1,828
Rhode Island C.	283	1,843	0	0	420	0	159	155	27	0	0	1,082
Langston U.	284	1,831	0	0	1,831	0	0	0	0	0	0	0
Mercer U.	285	1,821	0	0	1,821	0	0	0	0	0	0	0
Stevens Institute of Technology	286	1,813	384	0	0	0	0	0	0	0	1,429	0
Texas Southern U.	287	1,804	0	0	1,804	0	0	0	0	0	0	0
William & Mary	288	1,787	0	234	422	0	873	68	0	0	0	190
U. of the Virgin Islands	289	1,775	0	0	1,616	0	159	0	0	0	0	0
Illinois State U.	290	1,734	0	0	1,526	0	0	0	187	0	0	21
California Polytechnic State U., San Luis Obispo	291	1,731	22	0	1,532	64	0	0	113	0	0	0
North Carolina Agricultural and Technical State U.	292	1,721	23	0	1,051	0	110	12	45	0	66	414

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, John Jay C. of Criminal Justice	293	1,713	0	0	1	0	209	1,360	0	0	0	143
SUNY, C. of Optometry	294	1,688	0	0	1,688	0	0	0	0	0	0	0
U. Louisiana, Monroe	294	1,688	0	0	1,633	0	55	0	0	0	0	0
California State U., Fullerton	296	1,670	0	0	1,220	0	0	66	0	384	0	0
Hampton U.	297	1,603	0	0	676	0	0	0	710	0	37	180
Winston-Salem State U.	298	1,596	0	0	1,521	0	0	75	0	0	0	0
Pacific U.	299	1,564	0	0	1,564	0	0	0	0	0	0	0
Touro U.	300	1,500	0	0	1,488	0	0	0	0	0	0	12
Bowling Green State U.	301	1,480	0	310	400	0	119	0	613	0	0	38
Gallaudet U.	302	1,462	256	0	383	0	0	0	56	0	0	767
CUNY, Lehman C.	303	1,432	0	0	108	0	1,174	0	0	0	0	150
Tougaloo C.	304	1,429	0	0	1,429	0	0	0	0	0	0	0
Palmer C. of Chiropractic, Davenport	305	1,400	0	0	1,400	0	0	0	0	0	0	0
Central Michigan U.	306	1,386	0	0	853	0	0	275	0	237	0	21
St. John's U., New York	307	1,377	0	0	1,292	0	44	41	0	0	0	0
U. Akron	308	1,359	0	0	62	0	900	8	0	0	389	0
Woods Hole Oceanographic Institution	309	1,352	0	1,352	0	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	310	1,327	0	0	1,299	0	0	0	0	0	0	28
Texas A&M U.-Kingsville	311	1,324	0	0	1,098	0	108	86	0	0	7	25
U. Puerto Rico, Mayaguez	312	1,275	0	0	452	0	364	0	0	0	459	0
Southern Illinois U., Edwardsville	313	1,271	0	0	1,225	0	46	0	0	0	0	0
SUNY, Polytechnic Institute	314	1,235	0	0	1,235	0	0	0	0	0	0	0
Barnard C.	315	1,216	0	10	418	0	128	660	0	0	0	0
South Carolina State U.	316	1,175 i	0 i	0 i	1,175 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Northeastern Illinois U.	317	1,122	0	0	1,122	0	0	0	0	0	0	0
Saginaw Valley State U.	318	1,083	0	0	1,083	0	0	0	0	0	0	0
U. Puerto Rico, Cayey	319	1,074	0	0	564	0	137	0	282	91	0	0
Ball State U.	320	1,060	0	0	921	0	93	0	46	0	0	0
Northwest Indian C.	321	1,044 i	0 i	0 i	0 i	0 i	0 i	0 i	1,044 i	0 i	0 i	0 i

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Morehouse C.	322	1,033	0	0	0	142	652	0	0	239	0	0
Montclair State U.	323	1,008	0	2	1,004	0	0	2	0	0	0	0
Long Island U.	324	1,001	0	0	926	0	0	50	0	0	0	25
Western Kentucky U.	325	977	0	0	607	0	168	157	0	0	0	45
Northern Illinois U.	326	930	46	0	199	0	265	166	0	0	15	239
U. of the Sciences Philadelphia	327	923	0	0	709	0	214	0	0	0	0	0
U. of the Pacific	328	920	0	0	582	0	0	0	0	312	26	0
New York Institute of Technology	329	919	0	0	890	0	0	0	0	0	29	0
U. North Carolina, Asheville	329	919	234	0	667	0	0	18	0	0	0	0
National U. of Natural Medicine	331	912	0	0	912	0	0	0	0	0	0	0
Kennesaw State U.	332	907	0	0	819	0	88	0	0	0	0	0
Middlebury C.	332	907	47	0	440	0	175	245	0	0	0	0
James Madison U.	334	904	0	0	367	0	0	0	0	0	0	537
Florida Gulf Coast U.	335	898	0	304	594	0	0	0	0	0	0	0
Keck Graduate Institute	336	897 i	4 i	0 i	746 i	2 i	0 i	0 i	0 i	0 i	142 i	3 i
U. Central Arkansas	337	887	342	0	245	0	300	0	0	0	0	0
California State Polytechnic U., Pomona	338	857	0	0	857	0	0	0	0	0	0	0
U. Oklahoma, Tulsa	339	846	0	0	493	0	0	0	0	0	0	353
Keene State C.	340	838	0	0	838	0	0	0	0	0	0	0
U. Richmond	340	838	0	0	372	0	0	140	326	0	0	0
CUNY, York C.	342	835	0	0	435	0	329	0	58	0	0	13
Idaho State U.	342	835	0	0	772	0	0	63	0	0	0	0
Wesleyan U.	344	834	0	0	289	0	255	290	0	0	0	0
Grand Valley State U.	345	826	0	0	696	0	130	0	0	0	0	0
Trinity U.	346	825	0	0	296	0	320	209	0	0	0	0
U. Colorado Colorado Springs	347	812	0	0	571	0	0	85	0	3	153	0
New England C. of Optometry	348	785	0	0	785	0	0	0	0	0	0	0
U. Nebraska, Kearney	348	785	0	0	679	0	87	19	0	0	0	0
Texas A&M U.-Corpus Christi	350	771	0	0	229	0	0	0	0	0	0	542
California State U., Fresno	351	760	0	0	105	0	621	34	0	0	0	0
Northern Kentucky U.	352	755	0	0	287	0	191	277	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Hawaii Pacific U.	353	750	0	0	557	0	0	0	193	0	0	0
Davidson C.	354	741	0	0	23	0	67	651	0	0	0	0
U. Wisconsin-Oshkosh	355	711 i	3 i	1 i	632 i	2 i	19 i	19 i	14 i	0 i	11 i	10 i
Western Carolina U.	356	706	0	0	618	0	0	0	0	0	0	88
U. North Carolina, Wilmington	357	704	0	0	375	13	82	179	0	0	0	55
Arkansas State U., Jonesboro	358	702	82	0	457	0	128	35	0	0	0	0
Smith C.	359	663	135	0	319	23	73	0	0	0	113	0
Western Washington U.	360	658	0	0	113	0	460	85	0	0	0	0
Rutgers, State U. New Jersey, Camden	361	646	646	0	0	0	0	0	0	0	0	0
U. South Florida, Saint Petersburg	362	641	0	0	0	0	0	637	0	0	0	4
Midwestern U.	363	640	0	0	640	0	0	0	0	0	0	0
California State U., Dominguez Hills	364	637	0	0	0	47	390	63	137	0	0	0
Trinity C., Hartford	365	634	0	0	588	0	0	0	46	0	0	0
Alabama State U.	366	631	0	0	631	0	0	0	0	0	0	0
Georgia Southern U.	367	619	0	0	613	0	0	0	6	0	0	0
U. Central Oklahoma	368	616 i	0 i	0 i	54 i	0 i	562 i	0 i	0 i	0 i	0 i	0 i
Loyola Marymount U.	369	615	0	0	28	0	140	447	0	0	0	0
U. West Florida	370	593	0	0	190	0	231	0	0	0	0	172
Suffolk U.	371	584	0	0	0	0	0	584	0	0	0	0
U. Alabama, Huntsville	372	578	0	0	360	0	13	0	0	0	205	0
CUNY, Graduate Center	373	567	0	0	0	0	40	0	526	0	0	1
William Paterson U.	374	566	0	0	81	0	0	0	485	0	0	0
New Mexico Institute of Mining and Technology	375	560	0	0	152	0	266	0	0	0	26	116
Texas Woman's U.	376	553	0	0	504	0	49	0	0	0	0	0
Edward Via C. of Osteopathic Medicine	377	552	0	0	552	0	0	0	0	0	0	0
Bowdoin C.	378	550	0	0	447	0	0	103	0	0	0	0
U. Hawaii, Hilo	379	546	0	0	546	0	0	0	0	0	0	0
Lamar U.	380	543	0	0	118	0	20	0	10	0	0	395
Santa Clara U.	381	541	0	0	323	0	195	8	0	0	15	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Seton Hall U.	382	539	0	0	138	0	401	0	0	0	0	0
U. Washington, Tacoma	383	536	366	0	114	0	0	0	0	0	34	22
Winthrop U.	384	529	0	0	465	0	64	0	0	0	0	0
Teachers C., Columbia U.	385	524	0	0	324	0	0	200	0	0	0	0
Mercyhurst U.	386	510 i	3 i	0 i	475 i	1 i	13 i	7 i	7 i	1 i	0 i	3 i
Black Hills State U.	387	504	0	0	504	0	0	0	0	0	0	0
Clark U.	388	499	0	0	458	0	0	0	41	0	0	0
Morehead State U.	389	493	0	0	211	0	0	0	219	0	63	0
Ithaca C.	390	492	0	0	361	0	40	0	91	0	0	0
Bates C.	391	489	0	0	403	0	64	22	0	0	0	0
U. Arkansas, Little Rock	392	474	350	0	35	0	65	0	0	0	0	24
U. Massachusetts, Dartmouth	393	470	140	0	0	0	191	0	0	0	139	0
U. South Carolina, Aiken	394	464	0	0	464	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	395	442 i	3 i	1 i	386 i	1 i	17 i	13 i	8 i	0 i	8 i	5 i
Mount Holyoke C.	396	432	0	0	179	125	57	71	0	0	0	0
Florida Institute of Technology	397	431	0	0	0	21	38	337	0	0	35	0
Furman U.	398	430	0	0	344	0	37	0	49	0	0	0
Missouri U. of Science and Technology	399	428	0	0	57	0	145	0	0	0	226	0
Yeshiva U.	400	424	0	0	424	0	0	0	0	0	0	0
Biola U.	401	422 i	2 i	0 i	391 i	1 i	10 i	6 i	3 i	0 i	6 i	3 i
Philadelphia C. of Osteopathic Medicine	401	422	0	0	422	0	0	0	0	0	0	0
U. Puerto Rico, Humacao	403	421	0	0	229	0	192	0	0	0	0	0
West Virginia School of Osteopathic Medicine	404	419	0	0	414	0	0	0	0	0	0	5
Fayetteville State U.	405	418	0	0	307	0	111	0	0	0	0	0
U. Ana G. Mendez, Gurabo	405	418	0	0	418	0	0	0	0	0	0	0
Savannah State U.	407	416	0	0	174	0	0	0	0	0	242	0
Villanova U.	408	403	0	0	25	0	0	127	0	0	251	0
Franklin and Marshall C.	409	397	0	0	134	22	241	0	0	0	0	0
Salisbury U.	410	393	0	0	0	0	21	0	0	0	0	372
Reed C.	411	391	0	0	359	0	0	32	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tennessee State U.	412	390	0	0	390	0	0	0	0	0	0	0
Southeastern Louisiana U.	413	389	5	0	246	0	135	0	0	0	3	0
Midwestern State U.	414	387	0	0	381	0	0	0	0	0	0	6
Johnson C. Smith U.	415	382	11	0	246	0	0	0	0	0	0	125
Amherst C.	416	379	0	0	248	15	116	0	0	0	0	0
Pennsylvania State U., Harrisburg	416	379	0	0	379	0	0	0	0	0	0	0
Milwaukee School of Engineering	418	378	0	0	0	0	0	0	0	0	378	0
California State U., San Bernardino	419	374	0	0	13	0	3	358	0	0	0	0
California State U., Bakersfield	420	372	0	0	0	0	0	372	0	0	0	0
Clarkson U.	421	360	0	0	268	0	0	0	0	0	91	1
Spelman C.	421	360	0	0	15	0	65	280	0	0	0	0
Lipscomb U.	423	353 i	2 i	0 i	327 i	1 i	9 i	5 i	3 i	0 i	3 i	3 i
SUNY, C. of Environmental Science and Forestry	424	346	0	0	346	0	0	0	0	0	0	0
CUNY, C. Staten Island	425	345	0	0	169	0	95	81	0	0	0	0
Louisiana Tech U.	425	345	0	0	187	0	15	0	0	0	143	0
Toyota Technological Institute, Chicago	425	345	345	0	0	0	0	0	0	0	0	0
CUNY, New York City C. of Technology	428	343	0	0	343	0	0	0	0	0	0	0
Claflin U.	429	339	0	0	202	0	137	0	0	0	0	0
Montana Technological U.	429	339	0	0	339	0	0	0	0	0	0	0
St. Edward's U.	431	335	0	0	0	0	335	0	0	0	0	0
South Dakota School of Mines and Technology	432	331	0	0	0	0	0	0	0	0	331	0
U. Texas of the Permian Basin	433	328	0	0	328	0	0	0	0	0	0	0
Salish Kootenai C.	434	324	0	0	0	0	222	0	0	0	0	102
Southern Connecticut State U.	435	318	0	0	102	0	0	121	0	0	0	95
Swarthmore C.	435	318	0	0	156	0	113	0	24	0	0	25
CUNY, Medgar Evers C.	437	314	0	0	314	0	0	0	0	0	0	0
Desert Research Institute	438	308	0	308	0	0	0	0	0	0	0	0
Pomona C.	439	305	51	0	45	0	178	31	0	0	0	0
Claremont Graduate U.	440	298	3	0	0	0	0	232	63	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Northern Iowa	441	295	0	0	0	0	0	0	295	0	0	0
Des Moines U.	442	289	0	0	265	0	0	0	0	0	0	24
U. Maryland, Eastern Shore	442	289	0	0	289	0	0	0	0	0	0	0
Sam Houston State U.	444	283	0	0	129	0	0	154	0	0	0	0
U. Baltimore	444	283	0	0	0	0	0	0	260	0	0	23
U. Minnesota, Duluth	444	283	0	0	221	5	0	0	0	0	52	5
Pace U.	447	280	0	0	280	0	0	0	0	0	0	0
Bucknell U.	448	278 i	0 i	0 i	129 i	0 i	34 i	39 i	0 i	0 i	76 i	0 i
SUNY, C. Plattsburgh	449	277	0	0	277	0	0	0	0	0	0	0
Whitman C.	450	272	0	0	207	0	65	0	0	0	0	0
Marshall B. Ketchum U.	451	261 i	0 i	0 i	261 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Connecticut C.	452	259	83	0	0	0	0	70	106	0	0	0
U. San Diego	452	259	0	0	13	0	141	105	0	0	0	0
Doane U.	454	258 i	0 i	0 i	258 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Colby C.	455	244	9	0	161	0	74	0	0	0	0	0
U. Texas, Tyler	456	241	0	0	241	0	0	0	0	0	0	0
U. Dayton	457	236	0	0	203	0	0	0	0	0	15	18
Murray State U.	458	234	0	0	152	0	82	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	459	231	0	0	231	0	0	0	0	0	0	0
U. Michigan, Dearborn	459	231	0	0	171	0	0	0	0	0	60	0
Lafayette C.	461	218	0	0	31	0	71	116	0	0	0	0
U. Northern Colorado	461	218	0	0	115	30	0	73	0	0	0	0
Pittsburg State U.	463	216	0	0	172	0	19	0	0	0	25	0
California State U., Chico	464	215	0	0	155	0	0	0	60	0	0	0
Fort Hays State U.	464	215	0	0	151	0	64	0	0	0	0	0
Roger Williams U.	466	214	0	112	102	0	0	0	0	0	0	0
Skidmore C.	467	210	0	0	86	0	0	124	0	0	0	0
Vassar C.	468	209	0	0	13	18	0	178	0	0	0	0
Wheaton C., Wheaton	469	208	0	0	142	0	66	0	0	0	0	0
C. Charleston	470	205	0	0	116	0	58	0	0	31	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, C. Brockport	471	204	0	0	204	0	0	0	0	0	0	0
Saint Michael's C.	472	201	0	0	95	0	0	106	0	0	0	0
Erikson Institute	473	200	0	0	0	0	0	0	0	0	0	200
U. Ana G. Mendez, Carolina	474	195	0	0	195	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	475	185	0	0	100	0	39	0	0	0	46	0
California State U., Sacramento	476	183	0	0	105	0	44	0	0	0	0	34
U. Washington, Bothell	477	182	0	0	182	0	0	0	0	0	0	0
Middle Tennessee State U.	478	179	0	0	157	0	13	0	0	0	0	9
SUNY, Buffalo State	479	177	0	0	27	0	0	27	123	0	0	0
U. Massachusetts, central office	480	174	0	0	173	0	0	0	1	0	0	0
Dillard U.	481	173	0	0	173	0	0	0	0	0	0	0
Fisk U.	481	173	0	0	158	3	12	0	0	0	0	0
Claremont McKenna C.	483	171	0	0	157	0	0	14	0	0	0	0
Saint Joseph's U.	484	170	0	0	147	0	0	23	0	0	0	0
Pepperdine U.	485	169	0	0	29	0	0	103	37	0	0	0
Merrimack C.	486	168	0	0	168	0	0	0	0	0	0	0
U. Wisconsin-Eau Claire	487	166	0	0	0	0	44	122	0	0	0	0
Fort Lewis C.	488	165	0	0	165	0	0	0	0	0	0	0
Williams C.	489	161 i	0 i	0 i	161 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
California State U., Monterey Bay	490	160	0	0	160	0	0	0	0	0	0	0
SUNY, Geneseo	490	160	0	0	58	0	0	102	0	0	0	0
Coastal Carolina U.	492	157	0	0	157	0	0	0	0	0	0	0
Eastern Washington U.	492	157	0	0	157	0	0	0	0	0	0	0
Northern Michigan U.	492	157	0	0	0	0	0	157	0	0	0	0
Missouri State U.	495	150	0	0	143	0	0	0	7	0	0	0
U. Tulsa	496	148	93	0	28	0	0	0	0	0	27	0
Macalester C.	497	145	0	0	50	24	71	0	0	0	0	0
Eastern Kentucky U.	498	143	0	0	113	0	0	0	0	0	0	30
U. Michigan, Flint	499	142	0	0	118	0	0	0	0	0	0	24
Towson U.	500	132	0	0	61	0	0	71	0	0	0	0
Purdue U., Northwest	501	131	0	0	131	0	0	0	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bryn Mawr C.	502	129	0	0	0	0	129	0	0	0	0	0
Prairie View A&M U.	503	128	0	0	48	0	78	0	0	0	2	0
U. California, Office of the President	504	123	0	0	123	0	0	0	0	0	0	0
U. New Orleans	504	123	0	0	111	0	10	0	0	2	0	0
Lewis and Clark C.	506	121	0	0	121	0	0	0	0	0	0	0
C. New Jersey	507	120	0	0	120	0	0	0	0	0	0	0
Calvin U.	508	113 i	0 i	0 i	64 i	0 i	49 i	0 i	0 i	0 i	0 i	0 i
Indiana U. Pennsylvania	509	111	0	0	0	0	0	0	60	2	0	49
Haverford C.	510	109	0	0	109	0	0	0	0	0	0	0
U. Houston-Clear Lake	510	109	0	0	0	0	0	109	0	0	0	0
Alcorn State U.	512	107	0	0	107	0	0	0	0	0	0	0
Elizabeth City State U.	513	106	0	0	106	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	513	106	0	0	73	0	33	0	0	0	0	0
New Mexico Highlands U.	515	104	0	0	104	0	0	0	0	0	0	0
Purdue U., Fort Wayne	515	104	0	0	0	0	0	104	0	0	0	0
Appalachian State U.	517	102	0	0	44	0	0	58	0	0	0	0
Kenyon C.	518	101	0	0	101	0	0	0	0	0	0	0
West Chester U. Pennsylvania	519	99	0	0	73	19	0	0	0	0	0	7
Providence C.	520	95	0	0	25	0	0	70	0	0	0	0
Occidental C.	521	90	0	0	0	0	85	0	5	0	0	0
Carleton C.	522	86	0	0	0	0	0	86	0	0	0	0
Elon U.	523	81	0	0	16	0	0	43	22	0	0	0
Seattle U.	523	81	0	0	0	81	0	0	0	0	0	0
Oberlin C.	525	74	66	0	0	0	8	0	0	0	0	0
C. Wooster	526	73	0	0	73	0	0	0	0	0	0	0
Colgate U.	527	71	0	0	0	0	71	0	0	0	0	0
Manhattan C.	527	71	0	0	0	0	71	0	0	0	0	0
U. Wisconsin-La Crosse	529	65	0	0	65	0	0	0	0	0	0	0
California State U., East Bay	530	63	0	0	37	0	0	26	0	0	0	0
West Virginia State U.	531	62	0	0	31	0	0	0	0	0	31	0
Central Connecticut State U.	532	61	0	0	61	0	0	0	0	0	0	0

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Youngstown State U.	532	61	0	0	0	0	29	0	32	0	0	0
Hope C.	534	59	0	0	59	0	0	0	0	0	0	0
Minnesota State U., Mankato	534	59	0	0	0	0	0	59	0	0	0	0
U. Alaska, Southeast	534	59	0	0	59	0	0	0	0	0	0	0
Christopher Newport U.	537	57	0	0	57	0	0	0	0	0	0	0
Roseman U. of Health Sciences	538	56	0	0	56	0	0	0	0	0	0	0
SUNY, Oswego	539	54	52	0	0	0	0	0	0	0	2	0
Liberty U.	540	44	0	0	44	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	540	44	0	0	44	0	0	0	0	0	0	0
Citadel Military C. South Carolina	542	42	2	0	40	0	0	0	0	0	0	0
U. Illinois, Springfield	543	41	0	0	0	0	0	0	41	0	0	0
Dickinson C.	544	40	0	0	0	0	0	40	0	0	0	0
Stockton U.	545	39	0	0	39	0	0	0	0	0	0	0
Texas A&M International U.	546	38	0	0	0	0	38	0	0	0	0	0
CUNY, Baruch C.	547	35	0	0	0	13	0	0	22	0	0	0
U. Wisconsin-Platteville	547	35 i	0 i	0 i	15 i	0 i	10 i	4 i	3 i	0 i	1 i	2 i
Dine C.	549	31	0	0	31	0	0	0	0	0	0	0
Naval Postgraduate School	550	29	0	0	0	29	0	0	0	0	0	0
Tennessee Technological U.	551	28	0	0	4	0	0	0	0	0	24	0
U. Houston-Downtown	551	28	0	0	0	0	0	0	0	0	28	0
Virginia State U.	553	27	0	0	27	0	0	0	0	0	0	0
Stephen F. Austin State U.	554	24	0	0	0	0	0	0	0	0	0	24
Norfolk State U.	555	23	0	0	0	0	0	0	0	0	23	0
Willamette U.	556	22	0	0	0	0	6	16	0	0	0	0
Franklin W. Olin C. of Engineering	557	21	0	0	0	0	0	0	0	0	21	0
Bradley U.	558	20	0	0	20	0	0	0	0	0	0	0
New School	559	18	0	0	12	0	0	6	0	0	0	0
Florida Polytechnic U.	560	17	17	0	0	0	0	0	0	0	0	0
Sonoma State U.	560	17	0	0	17	0	0	0	0	0	0	0
U. of St. Thomas (MN)	562	16	0	0	0	0	0	16	0	0	0	0
U. Hartford	563	15	0	0	9	0	0	0	0	0	0	6

TABLE 61

Federally financed higher education R&D expenditures, financed by the Department of Health and Human Services, ranked by HHS R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	HHS R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
La Salle U.	564	14	0	0	14	0	0	0	0	0	0	0
U. of the Incarnate Word	564	14	0	0	14	0	0	0	0	0	0	0
Dakota State U.	566	13	13	0	0	0	0	0	0	0	0	0
Albany State U.	567	12	0	0	12	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	567	12	0	0	0	0	0	0	0	0	12	0
Indiana State U.	567	12	0	0	12	0	0	0	0	0	0	0
Benedict C.	570	9	0	0	0	0	0	0	0	0	9	0
Hofstra U.	571	8	0	0	8	0	0	0	0	0	0	0
Rhode Island School of Design	571	8 i	0 i	0 i	0 i	0 i	0 i	0 i	3 i	0 i	0 i	5 i
St. Olaf C.	573	7	0	0	7	0	0	0	0	0	0	0
Western Illinois U.	573	7	0	0	0	0	7	0	0	0	0	0
U. of Mary Washington	575	6	0	0	0	0	0	0	0	0	0	6
Union C., Schenectady	575	6	0	0	0	0	0	0	0	0	6	0
Grambling State U.	577	3	0	0	0	3	0	0	0	0	0	0
U. Tennessee, Chattanooga	577	3	0	0	0	3	0	0	0	0	0	0
U. Puget Sound	579	2	0	0	0	0	2	0	0	0	0	0
Northwestern State U. Louisiana	580	1	0	0	1	0	0	0	0	0	0	0
U. Wisconsin-Superior	580	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

HHS = Department of Health and Human Services; nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $2,705 thousand in R&D expenditures financed by HHS in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	1,758,375	18,865	438,075	93,502	3,004	636,982	20,927	23,654	5,536	510,515	7,315
Johns Hopkins U.[a]	1	382,439	4,964	33,690	1,185	415	158,155	0	0	459	183,571	0
U. Colorado Boulder	2	126,185	153	34,292	513	51	40,539	0	94	1	50,515	27
California Institute of Technology	3	76,296	89	11,538	742	0	59,968	0	0	0	3,887	72
U. Maryland[b]	4	68,963	4	20,152	257	0	35,599	0	9,796	457	2,698	0
U. Arizona	5	60,541	0	2,000	1,136	60	54,955	0	0	0	2,390	0
Arizona State U.	6	58,226	86	49,249	690	0	276	0	3,735	12	4,146	32
U. California, Berkeley	7	38,006	0	541	123	155	34,586	0	5	1,892	704	0
Massachusetts Institute of Technology	8	36,610	422	6,222	176	0	19,494	0	0	145	10,106	45
U. Oklahoma, Norman and Health Science Center	9	33,581	0	32,195	117	0	1,061	0	0	0	208	0
Utah State U.	10	30,067	0	0	425	0	667	0	0	0	28,975	0
U. Michigan, Ann Arbor	11	28,557	0	534	546	44	3,092	0	1,454	0	22,887	0
U. Alabama, Huntsville	12	27,270	3,953	11,576	29	0	5,053	0	0	0	6,659	0
U. Maryland, Baltimore County	13	25,503	529	10,467	0	0	13,946	262	0	0	299	0
U. California, Los Angeles	14	23,858	0	16,551	298	0	4,096	0	1,102	0	1,811	0
U. Washington, Seattle	15	22,183	39	12,341	1,785	0	3,732	0	0	0	4,286	0
San Jose State U.	16	21,470	0	1,513	0	0	368	19,173	0	0	416	0
U. New Hampshire	17	20,865	0	19,847	387	0	205	0	0	0	228	198
U. Alaska, Fairbanks	18	20,627	30	15,903	393	0	3,971	0	0	24	306	0
Baylor C. of Medicine	19	19,410	0	0	19,410	0	0	0	0	0	0	0
Columbia U. in the City of New York	20	18,833	0	12,128	815	0	3,582	0	0	0	2,308	0
Pennsylvania State U., University Park and Hershey Medical Center	21	17,901	173	4,519	71	5	11,343	1	0	0	1,789	0
Stanford U.	22	17,289	0	1,681	452	0	10,855	0	164	0	3,273	864
Princeton U.	23	15,145	0	1,278	0	0	12,111	0	0	0	1,756	0
U. Texas, Austin	24	15,134	617	2,277	564	119	2,299	0	0	0	9,258	0
U. Hawaii, Manoa	25	14,141	183	8,068	288	37	4,876	0	0	0	689	0
U. Wisconsin-Madison	26	13,109	461	5,927	3,650	0	2,190	0	33	0	848	0
Georgia Institute of Technology	27	12,350	322	3,092	1,409	58	2,734	0	240	0	4,084	411
Catholic U. of America	28	11,992	0	0	0	0	11,389	0	0	0	603	0
U. Iowa	29	11,649	0	223	5	0	10,163	0	0	0	1,258	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Alabama, Birmingham	30	11,153	0	0	0	0	179	0	0	0	10,974	0
U. California, San Diego	31	10,676	219	6,696	961	0	1,963	0	0	0	837	0
Purdue U., West Lafayette	32	9,935	172	2,245	95	0	1,060	0	0	0	6,363	0
Ohio State U.	33	9,913	0	1,115	421	0	3,169	0	64	107	5,037	0
Harvard U.	34	9,824	0	4,991	491	0	3,179	0	324	0	839	0
Texas A&M U., College Station and Health Science Center	35	9,219	0	2,537	919	0	800	0	0	0	4,962	1
U. Central Florida	36	8,869	564	0	0	0	2,612	0	0	0	5,607	86
Cornell U.	37	8,724	0	757	579	0	5,699	0	0	0	1,689	0
Boston U.	38	8,621	0	3,200	89	0	3,484	0	0	0	1,430	418
U. Minnesota, Twin Cities	39	8,609	33	531	1,999	23	4,048	0	0	0	1,975	0
Colorado State U., Fort Collins	40	8,518	0	4,129	2,281	0	12	0	0	32	1,908	156
U. Illinois, Urbana-Champaign	41	8,430	83	957	511	0	1,755	0	18	0	5,101	5
U. California, Irvine	42	8,078	0	3,998	1,880	0	1,086	0	0	0	1,114	0
Washington U., Saint Louis	43	7,150	14	3,528	0	0	3,146	0	0	0	462	0
U. Florida	44	7,064	35	519	1,787	0	902	0	37	0	3,781	3
George Mason U.	45	6,947	56	4,913	0	0	1,235	0	0	0	560	183
Montana State U., Bozeman	46	6,803	0	25	725	0	4,275	0	5	669	947	157
Woods Hole Oceanographic Institution	47	6,640	0	5,467	0	0	0	0	0	0	1,173	0
Oregon State U.	48	6,593	0	3,578	1,851	0	297	182	0	266	419	0
U. Chicago	49	6,542	0	2,437	2	0	4,048	0	0	0	55	0
Auburn U., Auburn	50	6,019	0	0	214	0	1,202	0	0	144	4,459	0
U. California, Santa Barbara	51	5,053	0	2,502	320	0	1,277	0	0	0	954	0
Virginia Polytechnic Institute and State U.	52	4,951	0	248	319	0	264	0	333	0	3,767	20
Dartmouth C. and Dartmouth Hitchcock Medical Center	53	4,757	0	211	697	0	3,192	0	90	5	562	0
U. Tennessee, Knoxville[c]	54	4,731	105	1,463	223	0	0	0	0	0	2,940	0
U. Virginia, Charlottesville	55	4,580	558	607	251	0	1,552	0	0	0	1,612	0
U. California, Davis	56	4,579	0	202	1,057	0	1,025	0	0	0	2,295	0
Hampton U.	57	4,577	0	2,365	0	0	2,212	0	0	0	0	0
Michigan Technological U.	58	4,496	0	1,534	1	0	66	0	0	0	2,895	0
U. Toledo	59	4,363	0	1,280	0	0	592	0	0	0	2,491	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Delaware	60	4,276	0	333	85	0	2,551	0	0	0	1,307	0
New Mexico State U.	61	4,170	0	434	138	0	1,540	0	0	0	2,058	0
Case Western Reserve U.	62	4,049	0	329	0	0	748	0	0	0	2,972	0
West Virginia U.	63	4,020	64	72	0	1	706	0	0	0	3,177	0
Texas State U.	64	4,011	0	295	114	0	240	0	0	0	269	3,093
Yale U.	65	3,984	0	939	1,215	154	1,135	0	0	0	541	0
U. Pennsylvania	66	3,957	0	211	2,328	31	1,094	0	0	0	293	0
Florida State U.	67	3,919	0	1,774	238	72	682	0	15	0	1,138	0
Michigan State U.	68	3,865	0	414	816	23	512	41	1,514	0	545	0
U. Houston	69	3,765	155	759	318	0	561	14	0	0	1,958	0
U. Utah	70	3,718	326	1,555	317	0	451	0	497	0	572	0
Morgan State U.	71	3,707	13	3,303	0	0	0	0	0	0	389	2
Rutgers, State U. New Jersey, New Brunswick	72	3,690	0	1,744	496	0	475	0	0	0	975	0
Georgetown U.	73	3,689	0	0	2,511	0	0	0	1,165	0	0	13
Northern Arizona U.	74	3,669	0	1,035	566	0	2,023	0	0	45	0	0
U. South Carolina, Columbia	75	3,619	0	108	279	24	366	0	0	0	2,842	0
Louisiana State U., Baton Rouge	76	3,551	50	577	226	0	1,767	0	43	0	888	0
Brown U.	77	3,539	38	993	0	0	2,508	0	0	0	0	0
U. Miami	78	3,537	0	2,839	93	0	229	342	0	0	34	0
Rice U.	79	3,525	127	775	55	0	1,548	178	0	0	842	0
Northwestern U.	80	3,457	0	361	204	0	1,655	0	0	0	859	378
U. California, Santa Cruz	81	3,449	0	1,149	0	0	2,178	0	0	0	122	0
U. Massachusetts, Amherst	82	3,347	359	472	186	0	1,059	0	0	0	1,271	0
New Jersey Institute of Technology	83	3,302	0	0	0	58	3,197	0	0	0	47	0
American U.	84	3,211	0	75	0	0	3,136	0	0	0	0	0
Carnegie Mellon U.	85	3,094	765	0	0	0	371	74	0	0	1,884	0
U. California, Riverside	86	3,057	0	1,839	0	0	1,197	0	0	0	21	0
U. South Florida, Tampa	87	2,984	0	2,849	4	0	0	0	0	0	131	0
North Carolina State U.	88	2,939	0	650	509	0	214	0	0	0	1,566	0
SUNY, Stony Brook U.	89	2,911	2	1,881	586	0	195	0	0	4	230	13
U. Southern California	90	2,874	211	387	287	69	696	0	0	0	1,224	0
Duke U.	91	2,872	0	336	1,869	0	200	0	0	0	467	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, El Paso	92	2,808	468	300	130	0	0	0	0	195	1,715	0
U. Idaho	93	2,700	0	218	450	0	557	0	316	0	1,159	0
Rensselaer Polytechnic Institute	94	2,624	55	1,204	0	0	179	0	0	0	1,186	0
U. New Mexico	95	2,623	36	1,099	200	0	217	0	0	0	1,071	0
U. Montana, Missoula	96	2,566	52	456	1,956	0	102	0	0	0	0	0
U. North Carolina, Chapel Hill	97	2,522	2	1,496	75	0	624	0	172	0	153	0
Old Dominion U.	98	2,488	88	191	0	505	335	0	0	0	1,369	0
Rochester Institute of Technology	99	2,364	0	0	17	255	2,077	0	0	0	0	15
Vanderbilt U. and Vanderbilt U. Medical Center	100	2,185	0	284	87	0	450	0	0	0	1,364	0
Colorado School of Mines	101	2,160	260	631	59	0	191	0	0	0	964	55
U. Pittsburgh, Pittsburgh	102	2,117	0	432	340	0	354	0	0	0	991	0
Texas Tech U.	103	2,102	0	1,251	0	0	362	0	0	0	489	0
U. North Dakota	104	2,095	0	1,015	0	0	0	0	0	0	1,080	0
U. Texas Southwestern Medical Center	105	2,090	0	0	2,090	0	0	0	0	0	0	0
Loma Linda U.	106	1,975 i	0 i	0 i	1,975 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Texas A&M U.-Corpus Christi	107	1,878	0	477	0	0	0	0	0	0	1,401	0
Iowa State U.	108	1,873	0	7	135	0	21	0	0	0	1,692	18
CUNY, City C.	109	1,864	0	1,019	48	0	13	0	0	0	784	0
U. Massachusetts, Lowell	110	1,856	0	171	0	0	1,650	0	0	0	35	0
U. Kansas	111	1,838	0	160	183	0	444	0	0	0	1,051	0
Wichita State U.	112	1,795	0	0	10	0	123	0	0	0	1,662	0
California State U., Monterey Bay	113	1,769	0	110	1,659	0	0	0	0	0	0	0
U. Rochester	114	1,729	0	370	246	0	871	0	0	0	242	0
U. Texas, San Antonio	115	1,722	34	647	0	0	829	0	0	0	156	56
U. Kentucky	116	1,662	0	118	0	0	342	0	0	0	1,202	0
U. Connecticut	117	1,647	0	100	612	0	173	0	0	0	762	0
U. Nevada, Las Vegas	118	1,600	0	455	314	0	653	0	0	0	178	0
Emory U.	119	1,584	0	0	1,307	0	277	0	0	0	0	0
Boise State U.	120	1,570	32	370	46	0	315	0	13	0	794	0
U. Texas, Arlington	121	1,568	22	0	0	0	907	0	0	0	639	0
Brigham Young U., Provo	122	1,553	0	57	0	2	392	0	0	0	1,102	0
Clemson U.	123	1,547	0	0	0	0	1,275	0	0	0	272	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Portland State U.	124	1,500	0	170	516	0	382	0	0	0	432	0
U. Nevada, Reno	125	1,478	88	1,079	14	0	40	0	0	0	253	4
Langston U.	126	1,454	0	0	1,452	2	0	0	0	0	0	0
C. Charleston	127	1,423	0	366	10	0	420	0	0	544	67	16
U. Alabama, Tuscaloosa	128	1,391	0	160	0	0	403	0	87	0	741	0
U. Southern Mississippi	129	1,389	0	140	0	0	0	0	0	0	1,249	0
Tufts U.	130	1,385	0	0	0	146	258	0	0	0	981	0
Desert Research Institute	131	1,375	0	1,375	0	0	0	0	0	0	0	0
U. Georgia	132	1,340	0	194	52	0	379	309	364	0	42	0
Florida Institute of Technology	133	1,292	6	0	0	0	821	0	0	0	437	28
U. Texas, Dallas	134	1,289	0	0	0	19	1,270	0	0	0	0	0
U. Puerto Rico, Rio Piedras	135	1,287	0	85	0	0	1,197	0	5	0	0	0
U. Illinois, Chicago	136	1,284	0	400	0	0	470	0	166	21	217	10
George Washington U.	137	1,282	0	0	260	0	665	0	0	0	357	0
U. Vermont	138	1,278	0	0	0	0	0	0	0	0	1,278	0
Florida International U.	139	1,212	0	247	427	0	0	0	0	0	538	0
U. Texas Medical Branch	140	1,108	0	0	1,108	0	0	0	0	0	0	0
Washington State U.	141	1,104	0	204	625	0	172	0	0	0	69	34
U. Arkansas, Fayetteville	142	1,078	0	336	9	0	430	0	0	0	303	0
U. Wyoming	143	1,066	0	173	0	0	211	0	0	346	336	0
Delaware State U.	144	1,057 i	0 i	0 i	5 i	1 i	895 i	0 i	0 i	0 i	156 i	0 i
Embry-Riddle Aeronautical U.	145	1,050	17	3	0	0	999	0	0	0	27	4
Mississippi State U.	145	1,050	0	171	0	0	14	0	0	0	865	0
New York U.	147	1,033	277	0	0	151	300	0	113	0	192	0
California State U., Los Angeles	148	1,031	0	0	0	0	53	0	959	0	19	0
U. Rhode Island	148	1,031	0	1,014	0	0	17	0	0	0	0	0
South Dakota State U.	150	1,029	0	430	0	0	32	0	0	0	567	0
U. Notre Dame	151	1,016	0	0	21	0	521	0	0	0	474	0
U. Dayton	152	991	0	61	0	0	0	0	0	0	930	0
Wake Forest U.	153	967	0	0	739	0	228	0	0	0	0	0
South Dakota School of Mines and Technology	154	964	0	0	0	8	0	0	0	0	956	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., San Marcos	155	961	0	0	0	0	961	0	0	0	0	0
Indiana U., Bloomington	156	952	234	76	119	0	419	35	69	0	0	0
Missouri U. of Science and Technology	157	927	0	0	0	0	0	0	0	0	927	0
U. Arkansas, Little Rock	158	919	0	0	34	0	40	0	0	0	845	0
Temple U.	159	905	0	5	77	0	355	0	215	0	205	48
Xavier U. Louisiana	160	902	0	0	0	0	858	0	0	0	44	0
U. California, Merced	161	890	0	0	0	0	799	0	0	0	91	0
Southern Methodist U.	162	829	0	687	0	94	1	0	0	0	47	0
Northeastern U.	163	826	55	0	0	0	265	0	0	0	506	0
Morehead State U.	164	824	0	0	0	0	0	0	0	0	824	0
Icahn School of Medicine at Mount Sinai	165	816	0	0	816	0	0	0	0	0	0	0
Villanova U.	166	814	0	0	0	0	814	0	0	0	0	0
U. Maine	167	809	0	527	88	0	2	0	0	64	123	5
New Mexico Institute of Mining and Technology	168	804	0	20	0	0	122	0	0	0	662	0
U. Oregon	169	803	0	723	5	0	75	0	0	0	0	0
U. of the Virgin Islands	170	790	0	0	0	0	0	0	0	0	790	0
Oklahoma State U., Stillwater	171	782	28	0	71	0	98	0	0	0	585	0
Naval Postgraduate School	172	773	0	309	0	0	0	0	0	0	464	0
San Diego State U.	173	760	0	122	53	0	71	0	50	0	464	0
U. Massachusetts, Boston	174	754	0	541	213	0	0	0	0	0	0	0
U. Maryland Center for Environmental Science	175	752	0	443	277	0	0	0	0	32	0	0
U. North Texas, Denton	176	722	0	0	0	0	129	0	0	0	201	392
SUNY, U. Buffalo	177	692	0	392	0	0	0	0	0	0	300	0
U. Akron	178	687	0	0	0	0	185	0	0	0	502	0
Georgia State U.	179	674	307	0	0	0	367	0	0	0	0	0
U. Missouri, Columbia	180	645	0	0	308	5	150	0	0	0	182	0
Wellesley C.	181	633	0	0	0	0	0	0	0	0	633	0
U. California, San Francisco	182	623	0	0	418	0	205	0	0	0	0	0
Illinois Institute of Technology	183	611	0	115	0	0	0	0	0	0	496	0
California State U., Northridge	184	609	0	46	73	0	163	0	0	0	327	0
North Carolina Agricultural and Technical State U.	185	608	0	7	0	0	0	0	0	0	601	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Wesleyan U.	185	608	0	403	0	0	205	0	0	0	0	0
U. Hartford	187	585	0	0	0	0	0	0	0	0	585	0
U. Nebraska, Lincoln	187	585	2	36	291	0	8	0	0	0	240	8
U. Cincinnati	189	582	0	17	203	109	71	0	15	0	167	0
Christopher Newport U.	190	566	0	0	0	0	0	0	0	0	566	0
Medical C. Wisconsin	191	562	0	0	562	0	0	0	0	0	0	0
U. Louisiana, Lafayette	192	555	0	0	253	0	0	0	0	0	302	0
U. Denver	193	553	0	0	302	0	68	0	0	0	183	0
Virginia Commonwealth U.	194	545	0	0	199	68	0	0	0	0	258	20
SUNY, U. Albany	195	539	0	360	102	0	0	0	0	0	77	0
U. Mississippi	196	535	0	0	62	0	270	0	0	0	203	0
Kansas State U.	197	528	0	43	0	0	106	0	0	33	346	0
Prairie View A&M U.	198	520	0	0	239	0	49	0	0	0	232	0
Florida Atlantic U.	199	515	0	1	322	0	38	0	0	0	154	0
Eastern Virginia Medical School	200	507	0	0	507	0	0	0	0	0	0	0
U. Colorado Denver and Anschutz Medical Campus	201	506	0	0	260	0	0	0	0	0	118	128
Cleveland State U.	202	490	0	0	154	126	0	0	0	0	210	0
Drexel U.	203	480	0	0	0	0	183	0	0	0	297	0
U. Nebraska, Omaha	204	476	0	0	0	0	0	0	0	0	476	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	205	464	0	33	0	0	247	0	5	0	167	12
U. Louisville	206	463	0	4	10	0	127	0	107	0	215	0
Sonoma State U.	207	458	0	458	0	0	0	0	0	0	0	0
Northwest Indian C.	208	439 i	0 i	387 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	52 i
U. Texas M. D. Anderson Cancer Center	209	438	0	0	438	0	0	0	0	0	0	0
Ohio U.	210	437	0	0	89	0	89	0	0	0	259	0
William & Mary	211	436	0	349	9	8	18	0	0	0	0	52
Bowdoin C.	212	409	0	390	5	0	14	0	0	0	0	0
U. South Alabama	213	399	0	0	0	0	15	0	0	0	384	0
Skidmore C.	214	389	0	389	0	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	215	388	0	0	0	0	21	0	0	0	367	0
St. Edward's U.	216	383	100	109	50	0	124	0	0	0	0	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Polytechnic State U., San Luis Obispo	217	353	67	0	51	0	66	0	7	0	162	0
U. of the District of Columbia	218	340	0	0	0	0	0	0	0	0	340	0
U. Arkansas for Medical Sciences	219	339	0	0	339	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	220	317	0	0	317	0	0	0	0	0	0	0
Syracuse U.	221	315	0	0	0	0	0	0	0	0	315	0
U. North Texas, Health Science Center	222	306	0	0	306	0	0	0	0	0	0	0
Scripps Research Institute	223	304	0	0	304	0	0	0	0	0	0	0
Stevens Institute of Technology	224	286	0	0	0	0	162	0	0	0	124	0
Boston C.	225	285	0	272	0	0	13	0	0	0	0	0
U. Puerto Rico, Mayaguez	226	269	0	74	0	0	7	0	0	0	188	0
U. Missouri, Kansas City	227	267	12	0	0	0	158	0	0	0	97	0
Wright State U.	228	264	0	0	3	0	232	0	0	0	29	0
California State U., Long Beach	229	262	0	18	0	0	0	236	0	0	0	8
U. North Carolina, Wilmington	230	251	100	151	0	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	231	245	0	0	34	0	211	0	0	0	0	0
Idaho State U.	232	240	0	236	0	0	0	0	0	0	4	0
U. Guam	232	240	0	239	0	0	0	0	0	0	0	1
Haverford C.	234	234	0	0	0	0	234	0	0	0	0	0
Ithaca C.	235	231	0	0	0	0	231	0	0	0	0	0
Montclair State U.	236	227	0	103	0	0	124	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	237	223	5	0	86	0	34	0	0	0	98	0
Kent State U.	238	216	0	113	0	0	91	0	0	0	12	0
U. Texas Health Science Center, Houston	238	216	0	0	216	0	0	0	0	0	0	0
U. North Carolina, Charlotte	240	213	0	0	0	0	19	0	0	0	194	0
Oregon Health and Science U.	241	207	0	0	207	0	0	0	0	0	0	0
Chapman U.	242	203	0	200	3	0	0	0	0	0	0	0
Northern Kentucky U.	242	203	0	0	0	0	203	0	0	0	0	0
U. Puerto Rico, Humacao	244	202	0	0	0	1	201	0	0	0	0	0
Western Kentucky U.	245	201	0	0	0	0	201	0	0	0	0	0
Andrews U.	246	191	0	0	0	0	191	0	0	0	0	0
Howard U.	247	188	0	0	0	0	188	0	0	0	0	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Tulsa	248	187	0	14	0	0	57	0	0	0	116	0
U. Alaska, Anchorage	249	186	0	86	5	0	95	0	0	0	0	0
California State U., Fresno	250	184	0	0	0	0	0	0	0	0	184	0
Oakland U.	250	184	18	0	128	0	18	0	0	0	20	0
U. Wisconsin-Milwaukee	252	181	0	47	0	0	133	0	0	0	1	0
Pomona C.	253	175	0	29	0	0	146	0	0	0	0	0
Colgate U.	254	170	0	167	0	0	3	0	0	0	0	0
Worcester Polytechnic Institute	255	169	0	0	0	32	0	0	0	0	137	0
Central Washington U.	256	165	0	107	0	0	58	0	0	0	0	0
Florida A&M U.	256	165	0	0	0	0	0	0	0	0	165	0
Clark U.	258	164	0	104	60	0	0	0	0	0	0	0
CUNY, York C.	258	164	0	164	0	0	0	0	0	0	0	0
Miami U.	260	163	0	0	0	0	0	0	160	0	3	0
Rowan U.	260	163	0	119	0	0	34	0	0	0	10	0
Creighton U.	262	160 i	5 i	51 i	22 i	1 i	77 i	0 i	2 i	0 i	0 i	2 i
Southern Connecticut State U.	262	160	0	0	0	0	160	0	0	0	0	0
CUNY, New York City C. of Technology	264	159	0	0	0	0	0	0	0	0	159	0
Western Washington U.	264	159	0	106	0	0	14	0	0	39	0	0
Wayne State U.	266	154	0	0	0	0	64	0	0	0	90	0
Louisiana Tech U.	267	151	0	0	14	0	15	0	0	0	122	0
Florida Gulf Coast U.	268	140	0	0	0	0	140	0	0	0	0	0
U. Puerto Rico, Medical Sciences Campus	269	136	0	136	0	0	0	0	0	0	0	0
North Dakota State U.	270	134	0	19	0	0	0	0	10	0	105	0
U. Memphis	270	134	0	0	0	0	80	0	0	0	54	0
Thomas Jefferson U.	272	132	0	0	132	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	273	130	0	0	130	0	0	0	0	0	0	0
Bowling Green State U.	274	126	0	126	0	0	0	0	0	0	0	0
DePaul U.	274	126	0	0	0	0	65	61	0	0	0	0
Marquette U.	276	124	0	0	0	0	105	0	0	0	19	0
Montana Technological U.	276	124	0	0	0	0	84	0	0	0	40	0
Central Connecticut State U.	278	122	0	85	4	0	8	0	0	0	25	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tennessee Technological U.	279	121	64	22	0	0	0	0	0	0	35	0
Tennessee State U.	280	120	0	0	0	0	120	0	0	0	0	0
Union C., Schenectady	280	120	0	0	0	0	120	0	0	0	0	0
U. Colorado Colorado Springs	282	117	0	0	0	0	0	0	0	0	117	0
U. Nebraska, Medical Center	283	116	0	0	116	0	0	0	0	0	0	0
U. New Orleans	284	115	94	0	0	0	0	0	0	0	21	0
Hope C.	285	114	0	0	4	58	18	0	0	0	34	0
Baylor U.	286	111	0	0	0	0	29	0	0	0	82	0
Albion C.	287	110	0	0	0	0	110	0	0	0	0	0
U. of the Pacific	288	108	0	0	0	0	108	0	0	0	0	0
West Texas A&M U.	288	108	108	0	0	0	0	0	0	0	0	0
U.S. Air Force Academy	290	103	0	0	0	0	53	0	0	0	50	0
East Carolina U.	291	99	0	20	0	0	71	0	0	0	8	0
U. Houston-Clear Lake	292	98	92	0	6	0	0	0	0	0	0	0
Bradley U.	293	96	0	0	0	0	1	0	0	0	95	0
Indiana U.-Purdue U., Indianapolis	294	95	14	66	0	0	0	0	0	0	0	15
Marshall U.	294	95	18	0	53	0	8	0	0	0	16	0
SUNY, C. Plattsburgh	296	93	0	0	0	0	93	0	0	0	0	0
Alabama A&M U.	297	88 i	3 i	0 i	10 i	1 i	23 i	5 i	6 i	0 i	38 i	2 i
Northern Illinois U.	298	87	0	0	87	0	0	0	0	0	0	0
Tulane U.	299	84	0	76	8	0	0	0	0	0	0	0
California State U., Fullerton	300	83	0	0	0	0	83	0	0	0	0	0
Santa Clara U.	301	77	0	0	0	0	0	0	0	0	77	0
Suffolk U.	302	76	0	0	0	0	0	0	0	0	76	0
Colby C.	303	74	0	0	0	0	74	0	0	0	0	0
Brandeis U.	304	72	0	0	65	0	7	0	0	0	0	0
Swarthmore C.	304	72	0	0	0	0	72	0	0	0	0	0
U. South Carolina, Aiken	304	72	0	40	32	0	0	0	0	0	0	0
CUNY, Lehman C.	307	71	0	0	0	0	57	0	0	0	0	14
Texas A&M U.-Commerce	307	71	0	0	0	0	71	0	0	0	0	0
South Carolina State U.	309	70 i	0 i	0 i	0 i	0 i	70 i	0 i	0 i	0 i	0 i	0 i
Lehigh U.	310	69	0	40	0	0	24	0	0	0	5	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Bowie State U.	311	68	68	0	0	0	0	0	0	0	0	0
U. Missouri, Saint Louis	312	67	3	0	0	0	64	0	0	0	0	0
U. North Carolina, Greensboro	313	63	0	0	14	0	13	0	36	0	0	0
Bates C.	314	62	0	0	0	0	62	0	0	0	0	0
Clarkson U.	314	62	0	0	0	0	0	0	0	0	62	0
Oberlin C.	314	62	11	5	39	0	0	0	7	0	0	0
Saint Louis U.	314	62	0	12	0	0	0	0	0	0	50	0
California State U., San Bernardino	318	60	0	0	37	0	23	0	0	0	0	0
Missouri State U.	318	60	0	9	0	0	51	0	0	0	0	0
Vassar C.	320	59	0	0	0	0	59	0	0	0	0	0
U. Massachusetts, Dartmouth	321	58	0	0	0	0	47	0	0	0	11	0
Middlebury C.	322	57	0	0	0	0	57	0	0	0	0	0
Oregon Institute of Technology	323	56	0	56	0	0	0	0	0	0	0	0
U. Wisconsin-Oshkosh	323	56 i	1 i	26 i	3 i	0 i	16 i	1 i	0 i	0 i	9 i	0 i
Southern Illinois U., Carbondale	325	55	0	51	4	0	0	0	0	0	0	0
Keene State C.	326	53	0	0	0	0	53	0	0	0	0	0
U. Washington, Bothell	326	53	0	0	0	0	0	0	0	0	0	53
California State Polytechnic U., Pomona	328	49	0	0	0	0	14	0	0	0	35	0
CUNY, Medgar Evers C.	328	49	0	0	0	0	0	0	0	0	0	49
Franklin W. Olin C. of Engineering	330	48	0	0	0	0	0	0	0	0	48	0
Occidental C.	330	48	0	0	0	0	48	0	0	0	0	0
CUNY, Hunter C.	332	47	0	36	0	0	11	0	0	0	0	0
U. Alaska, Southeast	332	47	0	0	17	0	30	0	0	0	0	0
Grand Valley State U.	334	45	0	15	5	0	25	0	0	0	0	0
SUNY, Geneseo	334	45	0	45	0	0	0	0	0	0	0	0
SUNY, C. of Environmental Science and Forestry	336	44	0	0	44	0	0	0	0	0	0	0
Appalachian State U.	337	40	0	0	0	0	40	0	0	0	0	0
Loyola U., Chicago	337	40	0	0	0	0	40	0	0	0	0	0
U. Richmond	337	40	0	40	0	0	0	0	0	0	0	0
James Madison U.	340	39	0	0	0	0	5	0	0	0	34	0
U. Washington, Tacoma	340	39	39	0	0	0	0	0	0	0	0	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. South Dakota	342	38	0	0	11	0	7	0	1	0	0	19
CUNY, Baruch C.	343	37	0	0	0	0	0	0	37	0	0	0
Bucknell U.	344	35 i	0 i	0 i	0 i	0 i	34 i	0 i	0 i	0 i	1 i	0 i
Central State U.	344	35	0	0	34	0	0	0	0	0	1	0
Jackson State U.	344	35	0	0	12	0	0	0	0	0	23	0
Texas A&M U.-Kingsville	344	35	0	0	0	0	0	0	0	0	35	0
U. Wisconsin-Green Bay	348	33 i	0 i	17 i	2 i	0 i	3 i	1 i	2 i	0 i	8 i	0 i
Alaska Pacific U.	349	32	0	32	0	0	0	0	0	0	0	0
U. Central Arkansas	349	32	0	0	9	0	23	0	0	0	0	0
Macalester C.	351	31	0	0	0	0	31	0	0	0	0	0
U. of St. Thomas (MN)	351	31	0	0	0	0	31	0	0	0	0	0
Tougaloo C.	353	30	0	0	0	0	30	0	0	0	0	0
U. Northern Colorado	353	30	0	0	0	0	19	11	0	0	0	0
Mercer U.	355	29	0	0	0	0	0	0	0	0	29	0
Fort Lewis C.	356	28	0	0	0	0	0	0	0	0	28	0
SUNY, Polytechnic Institute	356	28	0	0	0	0	0	0	0	0	28	0
U. Northern Iowa	356	28	0	0	9	0	19	0	0	0	0	0
East Tennessee State U.	359	26	0	0	0	0	26	0	0	0	0	0
Georgia Southern U.	359	26	0	0	0	0	26	0	0	0	0	0
U. Hawaii, Hilo	359	26	0	0	0	0	26	0	0	0	0	0
U. Nebraska, Kearney	359	26	0	0	3	0	23	0	0	0	0	0
Youngstown State U.	359	26	0	0	0	0	15	0	0	0	11	0
U.S. Naval Academy	364	25	0	25	0	0	0	0	0	0	0	0
Middle Tennessee State U.	365	23	0	0	23	0	0	0	0	0	0	0
U. North Florida	365	23	0	0	1	0	10	0	0	0	12	0
C. New Jersey	367	22	0	0	0	0	16	0	0	0	3	3
Carleton C.	367	22	0	0	0	0	22	0	0	0	0	0
Harvey Mudd C.	367	22	0	0	0	0	22	0	0	0	0	0
Texas Christian U.	367	22	0	0	0	0	22	0	0	0	0	0
Weber State U.	367	22	0	0	0	0	0	0	0	0	22	0
Fort Hays State U.	372	21	0	0	0	0	21	0	0	0	0	0
U. Wisconsin-La Crosse	372	21	0	6	0	0	15	0	0	0	0	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Michigan U.	374	20	0	0	0	0	19	0	0	0	0	1
U. New Haven	374	20	0	0	9	0	0	0	0	0	11	0
California State U., East Bay	376	19	0	19	0	0	0	0	0	0	0	0
Lipscomb U.	376	19 i	0 i	0 i	1 i	0 i	5 i	0 i	1 i	0 i	10 i	2 i
Texas A&M International U.	376	19	0	19	0	0	0	0	0	0	0	0
Merrimack C.	379	18	0	0	0	0	0	0	0	0	18	0
Mount Holyoke C.	379	18	0	0	0	0	18	0	0	0	0	0
Ball State U.	381	17	0	0	17	0	0	0	0	0	0	0
Purdue U., Northwest	381	17	0	0	0	0	0	0	0	0	12	5
U. North Carolina, Asheville	381	17	0	0	0	0	17	0	0	0	0	0
Air Force Institute of Technology	384	16	0	0	0	0	0	0	0	0	16	0
CUNY, C. Staten Island	384	16	0	0	16	0	0	0	0	0	0	0
Dillard U.	384	16	0	0	0	0	16	0	0	0	0	0
U. Maryland, Eastern Shore	384	16	0	0	0	0	0	0	0	0	16	0
U. Texas Rio Grande Valley	384	16	0	16	0	0	0	0	0	0	0	0
West Chester U. Pennsylvania	384	16	0	0	0	0	16	0	0	0	0	0
Biola U.	390	15 i	0 i	0 i	3 i	0 i	5 i	0 i	1 i	0 i	5 i	1 i
Indiana U. Pennsylvania	390	15	0	0	15	0	0	0	0	0	0	0
Johnson C. Smith U.	390	15	0	0	0	0	0	0	0	0	15	0
Mercyhurst U.	390	15 i	0 i	7 i	1 i	0 i	6 i	0 i	0 i	0 i	0 i	1 i
U. Wisconsin-Eau Claire	394	14	0	0	0	0	14	0	0	0	0	0
Austin Peay State U.	395	13	0	0	0	0	13	0	0	0	0	0
Roger Williams U.	395	13	0	0	0	13	0	0	0	0	0	0
Trinity C., Hartford	395	13	0	0	0	0	0	0	0	0	13	0
U. West Florida	395	13	0	0	0	0	13	0	0	0	0	0
Colorado State U., Pueblo	399	12	0	0	0	0	0	0	0	0	12	0
Pittsburg State U.	399	12	0	0	0	0	0	0	0	0	12	0
U. Illinois, Springfield	399	12	0	0	0	0	12	0	0	0	0	0
Arkansas State U., Jonesboro	402	11	0	0	0	0	11	0	0	0	0	0
U. North Georgia	402	11	0	0	8	0	0	0	0	0	0	3
U. Wisconsin-Platteville	402	11 i	0 i	3 i	6 i	0 i	0 i	1 i	0 i	0 i	0 i	1 i
Willamette U.	402	11	0	0	11	0	0	0	0	0	0	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Calvin U.	406	10 i	0 i	0 i	2 i	0 i	8 i	0 i	0 i	0 i	0 i	0 i
CUNY, Graduate Center	406	10	0	0	0	0	0	0	0	0	10	0
Fairfield U.	406	10	0	0	0	0	10	0	0	0	0	0
Furman U.	406	10	0	1	8	0	1	0	0	0	0	0
Gettysburg C.	406	10	0	0	0	0	10	0	0	0	0	0
Indiana State U.	406	10	0	10	0	0	0	0	0	0	0	0
Kennesaw State U.	406	10	0	0	10	0	0	0	0	0	0	0
U. Louisiana, Monroe	406	10	0	10	0	0	0	0	0	0	0	0
Western Carolina U.	406	10	0	10	0	0	0	0	0	0	0	0
Hofstra U.	415	9	0	0	0	0	4	0	0	0	5	0
U. Wisconsin-Superior	415	9	0	0	0	0	0	0	0	0	9	0
Florida Polytechnic U.	417	8	4	0	0	0	0	0	0	0	4	0
Pacific U.	417	8	0	0	0	0	8	0	0	0	0	0
Alfred U.	419	7	0	0	0	0	7	0	0	0	0	0
Keck Graduate Institute	419	7 i	1 i	0 i	3 i	0 i	0 i	0 i	0 i	0 i	2 i	1 i
Franklin and Marshall C.	421	6	0	0	0	0	6	0	0	0	0	0
Tuskegee U.	421	6	0	0	0	0	0	0	0	0	6	0
U. Minnesota, Duluth	421	6	0	0	6	0	0	0	0	0	0	0
Saint Michael's C.	424	5	0	0	5	0	0	0	0	0	0	0
Southeastern Louisiana U.	424	5	0	0	0	0	5	0	0	0	0	0
Stockton U.	424	5	0	5	0	0	0	0	0	0	0	0
Virginia State U.	424	5	0	0	0	0	0	0	0	0	5	0
Williams C.	424	5 i	0 i	5 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Morehouse C.	429	4	0	0	0	0	4	0	0	0	0	0
Trinity U.	429	4	0	0	0	0	4	0	0	0	0	0
Albany State U.	431	3	0	0	0	0	0	0	0	0	3	0
San Francisco State U.	431	3 i	0 i	0 i	0 i	0 i	3 i	0 i	0 i	0 i	0 i	0 i
Black Hills State U.	433	2	0	0	2	0	0	0	0	0	0	0
Eastern Connecticut State U.	433	2	0	0	2	0	0	0	0	0	0	0
Minnesota State U., Mankato	433	2	0	0	0	0	2	0	0	0	0	0
Rhode Island School of Design	433	2 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Claflin U.	437	1	0	0	0	0	0	0	0	0	1	0

TABLE 62

Federally financed higher education R&D expenditures, financed by the National Aeronautics and Space Administration, ranked by NASA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NASA R&D expenditures		Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences		Life sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences		Sciences nec		Engineering		All non-S&E fields	
Marshall B. Ketchum U.	437	1	i	0	i	0	i	1	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
Purdue U., Fort Wayne	437	1		0		0		0		0		0		0		0		0		1		0	
Saginaw Valley State U.	437	1		1		0		0		0		0		0		0		0		0		0	

i = imputed.

NASA = National Aeronautics and Space Administration; nec = not elsewhere classified; S&E = science and engineering.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $371,704 thousand in R&D expenditures financed by NASA in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	5,414,611	746,405	665,890	716,140	225,661	1,069,626	81,117	150,122	98,090	1,362,626	298,934
U. Texas, Austin	1	144,693	87,408	7,438	7,140	2,566	7,212	871	2,334	0	26,897	2,827
U. Illinois, Urbana-Champaign	2	127,552	52,238	2,613	7,031	2,398	22,217	2,516	1,180	0	32,822	4,537
U. Washington, Seattle	3	125,722	9,163	40,163	10,116	2,383	15,956	773	2,315	0	32,018	12,835
Cornell U.	4	110,447	12,275	4,165	20,354	2,378	38,989	641	2,617	0	28,033	995
Texas A&M U., College Station and Health Science Center	5	108,498	4,871	66,614	5,702	3,367	6,473	19	699	25	20,057	671
Woods Hole Oceanographic Institution	6	105,458	0	61,289	0	0	0	0	0	0	44,169	0
Massachusetts Institute of Technology	7	98,283	15,928	8,961	8,633	3,871	28,925	75	1,042	1,451	28,243	1,154
California Institute of Technology	8	96,277	2,766	8,292	2,562	755	76,760	0	0	0	4,218	924
U. Michigan, Ann Arbor	9	89,821	3,517	2,182	10,373	4,881	11,449	1,105	13,596	282	38,105	4,331
U. Wisconsin-Madison	10	89,371	12,215	10,902	8,993	3,471	26,697	1,406	2,058	1,377	15,574	6,678
U. California, San Diego	11	88,909	13,176	23,746	5,172	2,432	7,015	3,312	1,200	293	32,364	199
Columbia U. in the City of New York	12	86,265	9,817	35,180	7,575	2,308	10,965	352	1,570	0	14,011	4,487
U. Colorado Boulder	13	82,731	9,376	19,301	4,761	1,589	20,012	313	5,166	429	11,289	10,495
Michigan State U.	14	78,931	4,369	817	18,083	3,767	34,662	995	1,889	1,163	6,432	6,754
Stanford U.	15	78,681	5,614	4,039	6,112	3,521	14,540	1,529	2,238	0	17,168	23,920
Purdue U., West Lafayette	16	70,426	10,062	1,505	6,601	677	6,927	430	1,008	0	38,101	5,115
Arizona State U.	17	69,146	5,947	4,411	6,926	997	4,466	572	6,598	7,898	29,248	2,083
Princeton U.	18	68,930	10,667	7,783	5,066	4,517	25,331	1,026	2,153	0	12,339	48
U. California, Berkeley	19	68,052	158	2,416	10,191	5,074	15,086	1,324	596	4,953	25,213	3,041
Georgia Institute of Technology	20	67,630	14,103	2,628	1,959	3,633	7,669	100	1,831	0	32,235	3,472
U. Minnesota, Twin Cities	21	66,439	7,240	6,524	11,255	4,081	7,468	1,700	3,572	94	22,898	1,607
Pennsylvania State U., University Park and Hershey Medical Center	22	65,585	6,010	8,322	7,457	3,314	16,256	1,932	3,004	0	17,697	1,593
Florida State U.	23	63,396	2,707	3,513	4,060	1,086	31,565	182	448	32	16,510	3,293
U. California, Los Angeles	24	59,478	6,474	5,687	5,614	4,023	7,988	1,449	1,967	5,753	14,185	6,338
Carnegie Mellon U.	25	59,177	35,021	335	938	2,058	4,084	1,626	672	2,531	11,832	80
Ohio State U.	26	57,879	6,776	3,552	6,554	3,066	17,546	1,158	3,653	1,443	13,159	972
U. Maryland[a]	27	56,545	7,469	2,712	6,457	3,262	21,683	219	2,559	494	9,754	1,936
U. Southern California	28	56,035	21,041	5,157	8,993	1,068	4,314	473	909	0	12,349	1,731

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
North Carolina State U.	29	55,600	8,150	1,592	8,023	5,685	3,554	376	753	152	24,224	3,091
Northwestern U.	30	49,659	3,108	284	3,392	1,580	14,343	628	2,146	11,005	12,763	410
Harvard U.	31	48,684	3,223	5,741	6,465	2,161	11,480	276	1,937	0	14,000	3,401
U. Arizona	32	48,163	2,338	5,637	13,302	1,656	9,860	290	2,939	1,994	8,730	1,417
U. Florida	33	48,114	4,653	6,595	8,823	379	7,468	298	687	0	14,130	5,081
Oregon State U.	34	47,950	1,539	17,553	9,174	802	2,141	349	1,101	3,548	7,568	4,175
U. Chicago	35	47,157	11,935	5,688	3,153	2,971	15,904	1,209	1,397	0	3,647	1,253
Virginia Polytechnic Institute and State U.	36	46,235	5,119	940	5,561	1,900	7,270	53	321	11	24,343	717
U. California, Irvine	37	45,598	6,810	3,511	4,353	3,000	10,847	979	1,148	0	9,169	5,781
U. California, Santa Barbara	38	44,669	2,196	8,314	3,303	942	16,123	1,046	787	6	11,201	751
Rutgers, State U. New Jersey, New Brunswick	39	44,032	4,380	7,490	6,655	4,412	6,990	788	193	21	10,228	2,875
Indiana U., Bloomington	40	43,122	19,163	841	3,305	1,071	8,659	1,876	1,466	4	4,171	2,566
U. Pennsylvania	41	43,067	3,964	601	3,802	1,175	15,655	1,193	1,566	51	8,088	6,972
New York U.	42	40,824	5,484	133	5,406	4,547	8,701	2,643	3,102	0	8,147	2,661
Northeastern U.	43	40,700	8,606	1,764	2,217	685	4,067	320	615	0	19,925	2,501
U. North Carolina, Chapel Hill	44	40,535	8,911	4,302	5,342	4,321	8,359	584	2,012	0	1,742	4,962
U. Massachusetts, Amherst	45	38,314	9,252	1,656	4,430	1,133	6,117	1,048	1,230	0	10,708	2,740
Johns Hopkins U.[b]	46	36,694	3,444	1,952	4,163	1,408	12,270	202	70	108	12,775	302
U. California, Davis	47	36,165	3,064	2,826	12,123	3,026	5,249	258	1,343	0	6,756	1,520
Rice U.	48	36,060	3,227	1,291	1,864	2,260	7,364	712	703	444	16,102	2,093
SUNY, Stony Brook U.	49	36,027	5,356	3,540	2,384	2,129	15,005	562	571	1,883	4,219	378
U. Utah	50	34,587	10,656	949	3,372	2,033	6,579	494	1,070	3	8,630	801
Duke U.	51	34,439	3,388	1,545	7,162	3,673	3,187	128	3,001	0	11,649	706
U. Alaska, Fairbanks	52	32,660	22	21,989	2,911	116	1,390	0	590	2,942	1,912	788
Boston U.	53	32,444	3,592	1,432	2,517	946	6,020	976	321	1,271	13,841	1,528
U. Delaware	54	31,843	3,252	5,707	3,815	891	6,953	1,128	1,744	482	6,500	1,371
U. Virginia, Charlottesville	55	31,618	7,072	2,934	1,874	834	4,745	600	2,098	1,113	7,932	2,416
SUNY, U. Buffalo	56	30,334	9,060	1,625	1,136	459	4,351	330	219	0	11,912	1,242
Iowa State U.	57	29,570	2,393	823	7,550	1,167	2,624	216	362	55	12,984	1,396
U. Hawaii, Manoa	58	29,444	2,141	18,396	1,692	296	3,357	53	937	460	1,918	194

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. New Mexico	59	29,197	1,899	4,190	4,960	1,029	2,487	85	1,143	1,524	10,140	1,740
Colorado State U., Fort Collins	60	29,078	1,205	7,439	4,379	1,764	3,075	1,077	239	139	7,689	2,072
U. Pittsburgh, Pittsburgh	61	28,642	2,502	504	4,736	1,169	5,307	266	321	2,238	10,304	1,295
U. Georgia	62	28,103	842	2,704	14,956	1,013	1,652	1,245	725	69	2,949	1,948
U. Nebraska, Lincoln	63	28,026	3,375	893	10,565	579	7,029	401	513	0	3,455	1,216
Yale U.	64	27,645	2,497	1,662	8,166	1,516	5,349	994	1,540	0	5,765	156
U. Notre Dame	65	27,578	3,447	0	1,246	2,675	9,956	533	594	405	8,558	164
Brown U.	66	25,460	2,550	1,747	5,628	5,514	3,581	0	329	171	5,774	166
U. California, Riverside	67	24,384	4,172	904	5,903	759	5,808	263	417	34	5,783	341
U. Connecticut	68	24,383	2,202	2,633	4,679	1,181	2,942	1,347	521	496	6,284	2,098
Florida International U.	69	24,368	6,698	2,702	2,619	138	3,202	302	158	575	7,872	102
Vanderbilt U. and Vanderbilt U. Medical Center	70	23,791	0	657	2,275	847	2,130	2,315	99	0	9,216	6,252
U. Tennessee, Knoxville[c]	71	23,561	4,490	336	3,096	388	1,996	800	282	600	11,206	367
U. Central Florida	72	22,704	2,741	1	1,052	780	2,834	16	290	109	13,349	1,532
U. Illinois, Chicago	73	21,625	5,178	44	1,637	2,383	4,160	205	42	0	5,835	2,141
Washington U., Saint Louis	74	21,551	2,874	1,228	4,378	856	3,617	121	300	2,104	5,788	285
U. Wyoming	75	19,828	259	8,113	3,629	797	810	168	156	4,759	1,029	108
U. New Hampshire	76	18,563	576	4,268	4,902	290	1,841	14	225	0	5,735	712
U. Rhode Island	77	18,523	401	7,216	2,156	0	1,088	0	625	4,239	2,438	360
Clemson U.	78	18,435	1,461	0	1,676	843	1,861	246	280	0	10,292	1,776
U. Kansas	79	18,369	1,075	1,992	7,767	514	2,538	24	769	106	2,862	722
U. Missouri, Columbia	80	18,313	685	418	9,638	737	1,015	369	214	607	3,378	1,252
Dartmouth C. and Dartmouth Hitchcock Medical Center	81	17,832	2,090	677	1,779	654	2,498	2,588	419	606	5,999	522
Washington State U.	82	17,807	2,295	1,998	5,062	69	2,344	0	277	0	4,926	836
U. Rochester	83	16,881	2,238	1,980	1,630	185	4,822	375	203	517	3,844	1,087
U. South Carolina, Columbia	84	16,712	1,232	1,564	6,222	718	1,424	19	338	0	2,464	2,731
U. Houston	85	16,703	1,337	1,267	1,422	2,325	2,363	477	141	292	6,959	120
Colorado School of Mines	86	16,181	2,251	1,997	0	411	3,661	0	107	0	6,375	1,379
Louisiana State U., Baton Rouge	87	15,899	851	1,819	2,596	1,466	5,885	24	335	185	2,263	475
U. California, Santa Cruz	88	15,818	1,989	3,892	1,371	161	4,527	42	458	0	2,888	490

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Kentucky	89	15,661	864	242	4,289	497	3,331	0	168	201	5,695	374
U. Oregon	90	15,062	844	2,378	1,899	853	4,116	588	1,196	0	0	3,188
Kansas State U.	91	14,852	530	198	6,310	188	2,140	0	418	186	3,319	1,563
George Washington U.	92	14,795	2,091	243	1,392	398	2,023	98	2,152	769	4,856	773
Tufts U.	93	14,208	1,011	95	2,278	1,615	1,729	203	612	0	5,002	1,663
U. Idaho	94	14,093	855	571	8,118	118	3	0	918	0	2,071	1,439
U. Arkansas, Fayetteville	95	13,559	1,117	1,080	3,178	69	1,760	0	304	0	5,926	125
Drexel U.	96	13,275	1,891	0	1,365	452	757	0	1,032	200	5,497	2,081
U. Texas, Dallas	97	12,782	3,516	163	264	565	1,847	0	302	3	5,411	711
U. Montana, Missoula	98	12,725	966	1,980	7,798	626	782	0	546	0	0	27
U. South Florida, Tampa	99	12,607	1,732	2,731	886	688	2,027	71	666	0	3,278	528
Syracuse U.	100	12,593	773	1,292	1,280	300	4,229	0	900	102	3,605	112
U. Oklahoma, Norman and Health Science Center	101	12,520	468	2,464	3,346	361	1,997	55	653	0	2,953	223
Rensselaer Polytechnic Institute	102	12,507	1,638	372	1,331	486	1,072	178	101	0	7,265	64
Lehigh U.	103	12,443	1,084	978	1,133	194	815	144	0	0	7,899	196
Montana State U., Bozeman	104	12,179	879	1,526	2,514	743	1,714	0	35	1,705	2,800	263
Emory U.	105	12,065	208	53	2,758	972	6,331	338	634	0	732	39
U. Maine	106	11,554	573	3,130	2,607	65	734	0	112	3,267	927	139
U. Maryland, Baltimore County	107	11,350	4,579	394	978	354	1,245	0	102	1,129	1,856	713
New Mexico State U.	108	11,316	3,644	1,081	1,484	122	1,419	35	123	0	2,688	720
George Mason U.	109	11,173	2,653	1,795	257	386	763	253	517	0	2,110	2,439
U. North Carolina, Charlotte	110	11,143	5,425	378	277	460	934	23	1,279	0	1,868	499
Temple U.	111	11,136	1,759	321	1,466	493	3,059	1,814	478	0	681	1,065
U. Nevada, Reno	112	10,997	1,159	1,712	2,528	667	1,705	331	247	49	2,305	294
Rochester Institute of Technology	113	10,792	3,535	0	181	979	2,199	0	125	0	1,730	2,043
U. Vermont	114	10,774	358	347	3,106	129	2,018	0	208	3,819	789	0
U. Alabama, Tuscaloosa	115	10,698	1,181	650	1,241	226	1,597	305	529	0	3,824	1,145
West Virginia U.	116	10,599	482	209	1,369	296	4,888	26	238	196	2,051	844
Worcester Polytechnic Institute	117	10,551	4,390	0	476	380	580	0	952	0	3,292	481
U. Wisconsin-Milwaukee	118	10,529	0	603	658	3,170	4,237	49	109	0	1,392	311
U. Texas, El Paso	119	10,527	4,804	757	1,146	174	774	319	181	0	2,038	334

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Miami	120	10,214	0	7,132	1,097	301	597	845	11	0	147	84
CUNY, City C.	121	10,122	477	248	643	273	3,876	0	0	0	4,590	15
Mississippi State U.	122	9,986	969	54	1,185	172	1,093	0	12	0	6,026	475
New Jersey Institute of Technology	123	9,925	1,981	0	449	1,204	3,528	0	0	0	2,570	193
Boise State U.	124	9,894	953	1,895	2,959	699	364	0	13	253	1,716	1,042
U. Iowa	125	9,691	986	443	963	245	2,926	254	606	86	1,921	1,261
Auburn U., Auburn	126	9,435	608	435	1,883	332	2,201	38	27	286	3,380	245
Northern Arizona U.	127	9,101	587	2,650	3,172	0	577	52	45	121	1,094	803
Case Western Reserve U.	128	9,097	0	84	1,208	228	1,913	0	293	0	4,876	495
U. Texas, Arlington	129	9,087	2,518	72	1,141	648	1,928	0	0	0	2,491	289
North Carolina Agricultural and Technical State U.	130	8,725	585	0	1,292	635	889	0	0	0	4,244	1,080
Georgia State U.	131	8,620	985	149	517	478	3,559	1,078	550	0	0	1,304
SUNY, U. Albany	132	8,569	863	3,614	1,681	193	755	17	186	0	731	529
Wayne State U.	133	8,358	1,060	115	1,011	1,018	2,904	1	152	0	1,829	268
Oklahoma State U., Stillwater	134	8,336	277	55	1,994	545	1,085	193	81	764	2,968	374
U. Alabama, Huntsville	135	8,210	544	932	188	0	4,228	0	10	0	2,293	15
U. California, San Francisco	136	8,151	0	0	3,962	0	4,189	0	0	0	0	0
U. Cincinnati	137	7,959	123	171	1,538	321	2,189	21	251	0	2,536	809
Utah State U.	138	7,940	1,407	0	2,072	215	1,280	8	63	0	2,530	365
Texas Tech U.	139	7,778	1,107	761	813	231	829	181	24	0	3,362	470
Jackson State U.	140	7,733	287	0	118	0	6,771	0	31	0	424	102
U. Louisville	141	7,586	0	165	1,266	11	604	260	98	0	5,182	0
Virginia Commonwealth U.	141	7,586	1,153	193	1,321	435	872	139	128	0	2,810	535
SUNY, Binghamton U.	143	7,577	1,554	196	401	85	2,984	0	316	0	1,819	222
Brigham Young U., Provo	144	7,547	461	15	751	325	1,339	40	60	0	4,483	73
U. California, Merced	145	7,204	0	1,337	287	1,104	1,646	189	22	0	2,209	410
William & Mary	146	7,153	1,295	2,920	722	96	1,564	161	124	0	0	271
San Diego State U.	147	7,132	290	183	1,472	856	1,150	778	574	34	1,157	638
Missouri U. of Science and Technology	148	7,046	762	0	28	218	3,161	0	32	0	2,838	7
New Mexico Institute of Mining and Technology	149	7,040	718	5,333	28	0	818	0	0	0	143	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgetown U.	150	6,952	1,926	0	1,679	0	1,821	493	180	626	0	227
Portland State U.	151	6,868	636	734	1,582	401	378	0	443	477	1,355	862
Indiana U.-Purdue U., Indianapolis	152	6,840	2,424	560	342	460	576	0	599	447	1,424	8
North Dakota State U.	153	6,758	463	99	1,754	150	1,453	271	72	1,478	583	435
U. Alabama, Birmingham	154	6,680	950	0	2,043	875	1,787	0	0	0	389	636
Cold Spring Harbor Laboratory	155	6,631	0	0	6,631	0	0	0	0	0	0	0
Brandeis U.	156	6,511	918	12	995	375	3,988	74	75	0	0	74
Boston C.	157	6,491	248	617	213	1,064	1,641	597	346	0	0	1,765
Illinois Institute of Technology	158	6,490	2,218	232	62	389	604	0	88	42	2,855	0
U. Texas, San Antonio	159	6,456	2,913	330	377	115	996	12	350	0	1,253	110
Michigan Technological U.	160	6,007	1,027	1,631	340	143	559	0	304	0	1,928	75
Old Dominion U.	161	5,985	457	1,649	846	156	660	69	8	0	1,556	584
U. Puerto Rico, Rio Piedras	162	5,862	75	1,385	1,095	0	1,895	0	38	1,022	270	82
U. Puerto Rico, Mayaguez	163	5,805	0	77	377	25	356	0	3	0	4,967	0
U. Colorado Denver and Anschutz Medical Campus	164	5,745	0	139	2,819	419	593	0	53	0	1,044	678
Tuskegee U.	165	5,718	388	0	32	1,140	149	0	0	184	3,825	0
U. Massachusetts, Lowell	166	5,669	760	571	80	0	275	892	0	0	2,752	339
Tulane U.	167	5,614	408	1,147	373	259	1,795	0	79	0	1,479	74
Stevens Institute of Technology	168	5,515	1,018	150	3	0	675	0	0	284	3,169	216
Rutgers, State U. New Jersey, Newark	169	5,446	599	716	1,643	0	793	633	281	100	0	681
California State U., Northridge	170	5,291	201	986	1,201	548	2,075	74	0	0	103	103
U. North Texas, Denton	171	5,024	903	69	739	92	897	0	143	0	1,721	460
Howard U.	172	4,974	540	0	697	0	279	318	114	0	3,026	0
U. Nevada, Las Vegas	173	4,897	303	1,092	834	15	469	0	131	0	1,321	732
U. Akron	174	4,671	0	173	237	49	2,077	45	19	0	2,007	64
Southern Methodist U.	175	4,626	95	719	0	565	793	0	65	0	1,334	1,055
U. of the Virgin Islands	176	4,492	44	2,809	9	694	749	0	143	0	44	0
St. Edward's U.	177	4,490	600	300	1,000	600	490	0	250	0	0	1,250
U. Mississippi	178	4,426	101	7	1,125	47	2,162	0	28	0	685	271
U. Massachusetts, Boston	179	4,408	371	541	323	12	1,514	85	872	0	320	370
South Dakota School of Mines and Technology	180	4,404	0	0	0	237	186	0	0	0	3,981	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Polytechnic State U., San Luis Obispo	181	4,232	136	264	524	1,838	764	0	32	0	365	309
U. Southern Mississippi	182	4,231	38	892	384	8	2,868	0	29	0	12	0
San Francisco State U.	183	4,221 i	52 i	784 i	1,903 i	322 i	811 i	0 i	44 i	169 i	136 i	0 i
Saint Louis U.	184	4,139	460	237	2,000	65	435	1	183	0	722	36
Florida Atlantic U.	185	4,130	710	89	767	177	544	93	0	0	1,415	335
U. South Dakota	186	4,124	665	0	1,509	0	1,562	0	12	0	376	0
Florida A&M U.	187	4,114	36	544	1,513	0	48	70	0	0	1,844	59
Kent State U.	188	4,082	452	124	455	286	1,509	157	150	2	379	568
U. Maryland Center for Environmental Science	189	4,079	0	1,934	1,376	0	72	0	0	3	0	694
U. North Dakota	190	3,889	263	782	920	0	528	0	41	598	496	261
U. Minnesota, Duluth	191	3,867	163	1,547	1,741	66	263	0	7	0	24	56
East Carolina U.	192	3,850	213	612	691	0	514	210	457	0	162	991
Miami U.	193	3,820	235	862	1,745	139	116	56	0	0	65	602
U. Toledo	194	3,814	0	287	680	36	447	7	0	0	2,148	209
U. Louisiana, Lafayette	195	3,670	704	392	664	91	114	0	0	3	1,225	477
U. Memphis	196	3,627	1,893	107	190	493	529	0	0	0	408	7
Scripps Research Institute	197	3,550	0	0	3,550	0	0	0	0	0	0	0
U. South Alabama	198	3,510	1,085	1,087	307	47	102	0	20	0	492	370
CUNY, Hunter C.	199	3,483	116	11	868	70	804	28	509	0	0	1,077
Clarkson U.	200	3,433	274	21	83	222	712	0	16	0	1,980	125
Louisiana Tech U.	201	3,431	0	0	30	195	288	92	0	0	2,826	0
North Carolina Central U.	202	3,329	12	252	42	0	2,436	0	0	0	464	123
Marquette U.	203	3,318	131	0	801	878	616	0	0	0	841	51
Texas State U.	204	3,232	541	347	296	799	406	0	237	32	168	406
U. Texas Rio Grande Valley	205	3,117	180	60	100	196	1,067	0	10	0	1,159	345
U. Denver	206	3,099	99	103	243	68	1,217	82	320	0	870	97
Western Michigan U. and Homer Stryker M.D. School of Medicine	207	3,071	52	79	319	9	502	0	78	2	354	1,676
Fisk U.	208	3,013	0	0	2,802	9	200	0	2	0	0	0
Villanova U.	209	2,965	106	349	333	0	834	317	0	0	581	445
Idaho State U.	210	2,935	627	538	1,075	0	384	166	0	0	85	60

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State Polytechnic U., Pomona	211	2,908	607	8	451	0	1,379	0	0	327	115	21
Hampton U.	212	2,892	699	774	211	0	350	0	0	0	639	219
Baylor U.	213	2,841	97	66	630	284	785	0	0	597	382	0
Morehouse C.	214	2,776	782	0	120	24	639	42	3	1,166	0	0
Bowling Green State U.	215	2,745	67	547	139	140	625	0	20	0	0	1,207
U. Nebraska, Omaha	216	2,739	1,473	0	357	138	0	0	0	0	0	771
California State U., San Marcos	217	2,728	913	0	338	1	601	359	5	486	0	25
U. Alaska, Anchorage	218	2,726	81	634	755	0	0	0	193	670	345	48
U. Tennessee, Chattanooga	219	2,719	755	0	547	78	0	0	0	0	1,339	0
California State U., Los Angeles	220	2,673	0	0	846	10	1,151	25	247	0	394	0
South Dakota State U.	221	2,635	0	0	1,840	61	149	0	274	0	269	42
U. Hawaii, Hilo	222	2,498	1	0	1,345	863	188	0	101	0	0	0
Wake Forest U.	223	2,484	44	0	1,371	71	760	53	12	0	135	38
California State U., San Bernardino	224	2,474	241	80	39	87	1,422	236	0	0	0	369
U. North Carolina, Greensboro	225	2,468	221	0	268	167	354	0	75	0	0	1,383
Tennessee Technological U.	226	2,457	1,172	0	21	0	623	0	0	0	641	0
Delaware State U.	227	2,456 i	0 i	0 i	1,133 i	283 i	788 i	0 i	0 i	0 i	239 i	13 i
Western Washington U.	228	2,412	0	430	94	217	515	42	102	541	471	0
San Jose State U.	229	2,399	0	870	143	0	449	83	23	0	831	0
Ohio U.	230	2,372	38	89	528	76	758	113	110	0	647	13
Morgan State U.	231	2,357	269	48	283	78	0	0	39	0	1,640	0
Teachers C., Columbia U.	232	2,286	1,130	0	34	0	0	16	1,106	0	0	0
Montclair State U.	233	2,222	117	219	244	327	139	172	63	0	0	941
Clark U.	234	2,197	47	202	890	0	702	0	356	0	0	0
Illinois State U.	235	2,173	23	378	491	119	434	0	0	0	0	728
Oakland U.	236	2,145	240	0	691	34	940	149	18	0	73	0
Rockefeller U.	237	2,131	0	0	1,658	244	229	0	0	0	0	0
Northern Illinois U.	238	2,112	2	360	54	24	1,075	86	73	0	67	371
Pace U.	239	2,100	750	0	473	0	0	0	0	0	0	877
CUNY, Advanced Science Research Center	240	2,067	0	0	1,048	0	257	0	0	0	762	0
DePaul U.	241	2,037	1,429	67	83	0	142	264	0	0	0	52

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, Graduate Center	242	1,984	0	0	87	23	395	297	808	0	20	354
U. Washington, Bothell	243	1,959	0	158	376	31	156	0	0	66	0	1,172
U. Massachusetts, Dartmouth	244	1,941	73	558	157	196	28	0	1	0	575	353
Arkansas State U., Jonesboro	245	1,938	76	0	1,103	0	533	0	0	226	0	0
California State U., Fullerton	246	1,905	0	145	369	0	920	0	33	0	430	8
Prairie View A&M U.	247	1,904	191	5	53	0	140	0	0	0	1,422	93
Rowan U.	248	1,865	237	54	9	0	293	0	73	0	1,199	0
CUNY, C. Staten Island	249	1,852	11	0	192	513	675	203	4	0	221	33
Oregon Health and Science U.	250	1,849	0	0	1,463	0	0	0	0	0	386	0
Southern U. and A&M C., Baton Rouge	251	1,847	2	0	28	0	298	0	0	0	1,090	429
Toyota Technological Institute, Chicago	252	1,841	1,841	0	0	0	0	0	0	0	0	0
Catholic U. of America	253	1,823	0	0	161	0	788	203	0	63	608	0
Norfolk State U.	253	1,823	0	0	114	48	372	0	0	0	1,289	0
Baylor C. of Medicine	255	1,803	0	0	1,803	0	0	0	0	0	0	0
Spelman C.	256	1,776	34	0	609	48	648	308	129	0	0	0
Virginia State U.	257	1,769	0	0	24	645	0	0	0	0	88	1,012
Clark Atlanta U.	258	1,765	31	0	713	157	837	0	0	0	0	27
CUNY, Queens C.	259	1,737	135	263	104	160	484	82	20	0	0	489
Winston-Salem State U.	260	1,729	443	0	469	0	496	177	0	0	0	144
U. North Carolina, Wilmington	261	1,691	0	821	593	35	199	0	0	0	43	0
U. Colorado Colorado Springs	262	1,683	841	12	80	11	69	141	46	0	150	333
U. Nebraska, central administration	263	1,674	0	0	1,674	0	0	0	0	0	0	0
Florida Institute of Technology	264	1,630	7	409	174	50	495	0	0	0	495	0
Murray State U.	265	1,609	0	0	1,320	198	73	0	0	0	0	18
Dakota State U.	266	1,605	1,557	0	48	0	0	0	0	0	0	0
South Carolina State U.	267	1,572 i	104 i	0 i	0 i	0 i	627 i	0 i	0 i	0 i	292 i	549 i
Southern Illinois U., Edwardsville	268	1,561	39	72	5	212	185	0	19	130	58	841
Texas A&M U.-Corpus Christi	269	1,538	204	665	340	0	60	0	13	0	139	117
Harvey Mudd C.	270	1,525	640	0	258	113	275	0	0	79	160	0
Loyola U., Chicago	271	1,522	65	0	640	164	335	241	52	0	0	25
Wellesley C.	272	1,511	317	154	455	240	76	42	227	0	0	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Embry-Riddle Aeronautical U.	273	1,502	256	0	0	23	811	0	298	0	114	0
Southern Illinois U., Carbondale	274	1,495	33	526	215	0	618	0	0	27	76	0
Barnard C.	275	1,485	60	35	14	22	677	538	19	0	0	120
Smith C.	276	1,482	147	0	554	98	191	0	0	0	492	0
U. Texas Southwestern Medical Center	276	1,482	0	0	1,482	0	0	0	0	0	0	0
California State U., Bakersfield	278	1,478	0	103	3	1,319	29	0	0	0	24	0
CUNY, Lehman C.	279	1,472	0	35	0	259	619	0	163	0	0	396
U. Missouri, Kansas City	280	1,468	198	151	114	0	388	0	0	0	617	0
Cleveland State U.	281	1,456	0	0	0	0	75	0	0	0	1,020	361
SUNY, Polytechnic Institute	281	1,456	0	0	62	0	0	0	0	0	1,394	0
U. Guam	283	1,455	0	1,111	0	0	0	0	0	0	0	344
Naval Postgraduate School	284	1,449	48	1,156	0	50	23	0	0	0	172	0
U. San Diego	285	1,415	0	152	31	78	616	0	0	0	451	87
Wichita State U.	286	1,398	0	0	213	72	368	1	0	0	716	28
Amherst C.	287	1,396	0	0	360	210	776	50	0	0	0	0
Marshall U.	288	1,358	0	17	1,301	0	40	0	0	0	0	0
Wesleyan U.	289	1,355	0	96	93	221	269	232	24	0	0	420
California State U., Fresno	290	1,345	69	116	200	287	247	0	0	0	318	108
U. Puerto Rico, Medical Sciences Campus	291	1,328	0	0	1,328	0	0	0	0	0	0	0
U. Maryland, Eastern Shore	292	1,312	0	1,312	0	0	0	0	0	0	0	0
Middle Tennessee State U.	293	1,292	179	0	93	0	352	58	0	0	0	610
Purdue U., Northwest	294	1,278	382	0	5	0	168	0	0	2	721	0
California State U., Long Beach	295	1,277	0	417	62	250	295	0	22	0	156	75
CUNY, Brooklyn C.	296	1,275	356	18	170	220	384	0	0	0	0	127
Icahn School of Medicine at Mount Sinai	297	1,274	0	0	1,274	0	0	0	0	0	0	0
Chapman U.	298	1,264	0	0	382	0	296	0	136	0	43	407
Western Kentucky U.	298	1,264	0	26	496	11	499	19	0	0	68	145
Central Michigan U.	300	1,258	0	122	715	52	165	34	86	0	84	0
U. Missouri, Saint Louis	301	1,256	0	0	375	97	460	0	23	0	0	301
Bates C.	302	1,255	113	91	725	8	192	61	65	0	0	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Michigan, Dearborn	303	1,241	0	0	112	49	26	0	0	0	1,034	20
Seattle U.	304	1,212	0	42	86	78	58	0	132	0	0	816
California State U., East Bay	305	1,206	61	0	58	0	231	0	0	0	0	856
U. Texas Health Science Center, Houston	306	1,179	0	0	1,179	0	0	0	0	0	0	0
Alabama State U.	307	1,176	0	0	1,116	0	60	0	0	0	0	0
Florida Gulf Coast U.	308	1,173	41	732	0	149	204	0	0	0	47	0
U.S. Naval Academy	308	1,173	200	127	0	63	467	0	0	0	316	0
Desert Research Institute	310	1,163	0	1,163	0	0	0	0	0	0	0	0
U. Tulsa	311	1,161	424	20	214	0	57	0	129	0	317	0
Reed C.	312	1,145	61	0	776	118	129	59	2	0	0	0
California State U., Chico	313	1,139	10	391	13	10	144	0	0	0	359	212
Texas Southern U.	314	1,137	148	176	0	204	527	0	0	0	82	0
Xavier U. Louisiana	315	1,134	87	0	144	0	830	0	0	0	21	52
American U.	316	1,121	67	80	237	65	112	0	240	0	0	320
Tennessee State U.	317	1,082	18	0	649	0	39	243	0	0	0	133
Carleton C.	318	1,052	33	670	82	41	226	0	0	0	0	0
Bucknell U.	319	1,046 i	23 i	21 i	83 i	214 i	169 i	0 i	0 i	64 i	287 i	185 i
California State U., Monterey Bay	320	1,021	734	139	0	148	0	0	0	0	0	0
James Madison U.	321	1,018	18	92	180	89	486	0	0	0	117	36
Lewis and Clark C.	322	994	27	11	417	45	494	0	0	0	0	0
Texas A&M U.-Kingsville	323	992	0	170	0	0	0	0	0	0	822	0
Pacific U.	324	987	0	0	22	9	21	0	84	0	0	851
U. Arkansas, Little Rock	325	986	169	0	88	0	723	0	0	0	6	0
Humboldt State U.	326	967	8	250	633	0	76	0	0	0	0	0
Appalachian State U.	327	958	224	223	193	5	126	20	167	0	0	0
Hofstra U.	327	958	0	1	294	0	0	0	0	0	283	380
California State U., Stanislaus	329	936	331	0	404	194	0	4	3	0	0	0
Occidental C.	330	935	236	235	199	49	207	9	0	0	0	0
New Mexico Highlands U.	331	930	134	189	66	0	541	0	0	0	0	0
CUNY, New York City C. of Technology	332	900	177	0	51	0	67	0	0	235	144	226
U. Dayton	333	899	0	39	246	0	172	0	0	0	320	122

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Oklahoma, Tulsa	334	882	0	0	0	0	0	0	0	0	882	0
Williams C.	335	862 i	58 i	94 i	235 i	222 i	200 i	0 i	53 i	0 i	0 i	0 i
U. Nebraska, Medical Center	336	861	0	0	861	0	0	0	0	0	0	0
U. Massachusetts, Medical School	337	857	0	0	857	0	0	0	0	0	0	0
Central Washington U.	338	846	0	392	179	52	189	0	0	0	34	0
Hope C.	339	841	0	0	175	0	562	0	0	0	104	0
Bowdoin C.	340	830	72	65	384	24	168	55	62	0	0	0
Bowie State U.	341	828	220	0	93	0	175	0	0	0	0	340
Providence C.	342	818	0	124	322	0	372	0	0	0	0	0
Santa Clara U.	343	808	11	0	177	20	250	0	82	0	261	7
CUNY, system office	344	806	6	39	84	0	0	0	0	0	662	15
U. North Florida	344	806	51	0	123	0	280	0	26	0	34	292
Northeastern Illinois U.	346	803	39	50	0	53	66	0	48	0	0	547
CUNY, Baruch C.	347	779	0	137	75	308	21	180	58	0	0	0
Vassar C.	347	779	273	0	3	332	101	11	59	0	0	0
Northwest Indian C.	349	776 i	1 i	423 i	88 i	0 i	0 i	0 i	0 i	0 i	0 i	264 i
Kennesaw State U.	350	771	105	0	88	4	422	0	11	0	0	141
California State U., Sacramento	351	770	91	5	20	0	152	90	53	3	12	344
Mount Holyoke C.	352	765	140	0	154	22	396	53	0	0	0	0
Wright State U.	353	764	0	56	62	0	257	75	0	0	314	0
SUNY, C. of Environmental Science and Forestry	354	759	0	397	310	0	0	0	4	0	48	0
C. Charleston	355	756	90	357	209	0	95	0	0	0	0	5
U. of the District of Columbia	355	756	79	0	0	277	0	0	0	0	400	0
New School	357	752	0	414	0	0	0	281	0	0	57	0
U. Texas M. D. Anderson Cancer Center	358	734	0	0	681	53	0	0	0	0	0	0
Alabama A&M U.	359	731 i	96 i	0 i	123 i	32 i	152 i	10 i	21 i	0 i	250 i	47 i
C. New Jersey	359	731	194	0	190	4	338	0	0	0	5	0
Duquesne U.	361	718	0	0	37	95	514	0	0	0	0	72
U. Northern Colorado	362	712	0	247	223	87	0	56	97	0	0	2
Claflin U.	363	708	253	37	40	13	121	0	75	0	169	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, John Jay C. of Criminal Justice	364	703	193	0	2	5	74	393	0	0	0	36
Fordham U.	364	703	0	0	340	66	81	120	0	0	0	96
California State U., Dominguez Hills	366	701	541	0	81	6	0	0	0	0	0	73
Doane U.	367	699 i	175 i	0 i	256 i	0 i	62 i	0 i	0 i	0 i	0 i	206 i
Black Hills State U.	368	697	452	0	154	0	91	0	0	0	0	0
Fort Lewis C.	369	696	0	0	0	0	426	0	0	0	270	0
Rutgers, State U. New Jersey, Camden	370	676	657	0	0	0	0	0	19	0	0	0
U. Washington, Tacoma	371	674	190	163	29	47	0	0	75	0	25	145
Towson U.	372	659	210	95	126	50	167	0	0	0	0	11
U. West Florida	373	654	113	0	201	0	179	0	0	0	0	161
Bryn Mawr C.	374	649	226	0	100	114	204	0	5	0	0	0
Johnson C. Smith U.	374	649	0	0	0	0	300	0	0	0	349	0
Elizabeth City State U.	376	644	35	0	322	287	0	0	0	0	0	0
Tougaloo C.	377	643	0	0	312	0	331	0	0	0	0	0
Haverford C.	378	641	39	103	0	65	329	93	12	0	0	0
Grinnell C.	379	638	76	0	23	72	410	0	30	0	0	27
Georgia Southern U.	380	637	16	21	4	30	287	0	0	0	266	13
Ball State U.	381	623	256	0	39	35	222	64	7	0	0	0
Medical U. South Carolina	382	622	0	0	622	0	0	0	0	0	0	0
California State U., Maritime Academy	383	621	0	0	0	0	0	0	0	0	621	0
Kenyon C.	384	613	0	0	419	0	194	0	0	0	0	0
U. New England	385	609	0	336	273	0	0	0	0	0	0	0
Oberlin C.	386	607	3	46	213	0	254	51	40	0	0	0
Texas A&M U.-Commerce	387	599	0	0	8	0	531	0	0	0	0	60
Saint Joseph's U.	388	595	8	0	313	0	0	31	0	0	0	243
U. New Haven	388	595	489	97	0	0	9	0	0	0	0	0
Skidmore C.	390	584	0	188	69	0	250	77	0	0	0	0
Middlebury C.	391	570	70	239	43	0	144	0	65	9	0	0
Sam Houston State U.	391	570	0	0	56	297	217	0	0	0	0	0
Polytechnic U. Puerto Rico	393	569	569	0	0	0	0	0	0	0	0	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Asheville	394	565	76	13	45	0	146	0	0	0	0	285
Creighton U.	395	560 i	104 i	49 i	86 i	38 i	206 i	14 i	22 i	0 i	0 i	41 i
Pomona C.	396	559	44	74	135	77	166	4	59	0	0	0
U. Northern Iowa	397	558	0	0	0	0	19	0	539	0	0	0
Colgate U.	398	555	112	128	84	56	165	0	10	0	0	0
Central State U.	399	548	0	0	21	37	6	0	0	319	165	0
Swarthmore C.	400	546	6	0	283	42	161	0	32	17	0	5
U. Puerto Rico, Humacao	401	529	0	0	0	0	529	0	0	0	0	0
Saint Michael's C.	402	527	0	0	527	0	0	0	0	0	0	0
Kean U.	403	522	417	105	0	0	0	0	0	0	0	0
Franklin and Marshall C.	404	520	0	37	368	0	103	12	0	0	0	0
West Virginia State U.	405	495	99	0	297	0	99	0	0	0	0	0
U. Texas Medical Branch	406	494	0	0	494	0	0	0	0	0	0	0
U. Richmond	407	493	0	0	160	21	188	91	33	0	0	0
Claremont McKenna C.	408	490	0	8	239	78	85	80	0	0	0	0
Grand Valley State U.	409	484	0	16	164	72	195	37	0	0	0	0
Stephen F. Austin State U.	410	477	0	0	0	128	0	0	0	0	5	344
Macalester C.	411	471	0	268	71	72	47	0	13	0	0	0
Colby C.	412	469	5	175	128	10	151	0	0	0	0	0
Davidson C.	413	459	0	0	177	51	46	107	78	0	0	0
Eastern Michigan U.	414	454	0	18	327	0	32	0	0	0	0	77
U. Alaska, Southeast	415	438	0	51	131	0	0	0	0	226	30	0
Montana Technological U.	416	436	0	156	0	0	13	0	0	0	267	0
U. New Orleans	417	425	28	1	37	0	195	0	26	0	137	1
Lafayette C.	418	424	0	0	0	56	228	0	0	0	139	1
U. Wisconsin-Eau Claire	419	421	0	4	30	35	352	0	0	0	0	0
Kettering U.	420	419	0	0	0	0	305	0	0	0	114	0
Liberty U.	420	419	0	0	0	0	0	0	0	0	419	0
William Paterson U.	422	414	0	414	0	0	0	0	0	0	0	0
Fort Valley State U.	423	409	0	0	337	0	72	0	0	0	0	0
Furman U.	424	403	0	6	0	0	320	0	77	0	0	0
California State U., Channel Islands	425	402	0	0	0	171	0	0	0	191	0	40

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Christopher Newport U.	426	396	0	0	0	0	378	0	0	0	0	18
U. Central Oklahoma	426	396 i	132 i	0 i	123 i	93 i	4 i	0 i	0 i	44 i	0 i	0 i
U. Puget Sound	428	395	0	0	223	0	172	0	0	0	0	0
U. Houston-Downtown	429	392	86	82	0	9	0	0	0	66	0	149
Mills C.	430	390	0	0	0	0	0	0	0	0	0	390
Salisbury U.	431	383	57	69	10	0	0	0	0	0	0	247
SUNY, Geneseo	432	382	0	59	0	35	261	0	27	0	0	0
New York Institute of Technology	433	380	132	0	10	0	0	0	0	0	214	24
Sonoma State U.	434	378	0	71	78	91	123	0	0	15	0	0
Trinity U.	434	378	15	3	0	68	280	0	0	0	0	12
East Tennessee State U.	436	377	0	0	26	123	228	0	0	0	0	0
Savannah State U.	437	375	0	147	0	0	50	0	0	153	25	0
Roger Williams U.	438	374	0	94	64	0	98	0	0	0	0	118
Trinity C., Hartford	439	372	0	0	315	52	5	0	0	0	0	0
Hobart and William Smith Colleges	440	368	0	114	39	83	132	0	0	0	0	0
U. of St. Thomas (MN)	440	368	17	0	239	40	54	0	0	0	18	0
Pepperdine U.	442	366	0	0	38	0	0	0	0	0	0	328
Lamar U.	443	364	14	0	0	54	0	0	0	0	284	12
West Texas A&M U.	443	364	0	30	0	0	166	0	0	0	168	0
U. Arkansas for Medical Sciences	445	360	0	0	360	0	0	0	0	0	0	0
Calvin U.	446	359 i	10 i	0 i	146 i	0 i	183 i	0 i	0 i	0 i	20 i	0 i
SUNY, Downstate Medical Center	447	358	0	0	358	0	0	0	0	0	0	0
Medical C. Wisconsin	448	356	0	0	289	0	0	0	0	0	67	0
Missouri State U.	449	355	0	56	136	0	116	24	23	0	0	0
Gallaudet U.	450	354	63	0	0	0	0	137	0	0	0	154
Loyola Marymount U.	451	351	0	0	233	117	0	0	0	0	0	1
Grambling State U.	452	349	0	0	0	0	349	0	0	0	0	0
St. John's U., New York	453	345	0	0	83	64	198	0	0	0	0	0
Coastal Carolina U.	454	339	0	339	0	0	0	0	0	0	0	0
Fairfield U.	455	338	0	0	191	74	73	0	0	0	0	0
Union C., Schenectady	456	336	3	130	13	13	102	0	0	0	75	0
Eastern Kentucky U.	457	335	0	0	198	24	61	0	0	0	52	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Purdue U., Fort Wayne	458	330	0	0	0	19	123	0	0	0	188	0
Indiana U. Pennsylvania	459	327	0	107	1	0	89	113	0	0	0	17
U. of the Incarnate Word	460	324	0	0	0	148	176	0	0	0	0	0
Manhattan C.	461	322	0	0	10	147	0	0	0	0	165	0
Winthrop U.	461	322	0	0	0	0	167	0	1	0	0	154
St. Cloud State U.	463	318	0	0	0	0	0	0	0	0	0	318
U. Wisconsin-La Crosse	463	318	36	0	1	77	190	0	14	0	0	0
Western Carolina U.	465	314	0	95	3	3	118	0	0	0	91	4
CUNY, York C.	466	313	0	298	15	0	0	0	0	0	0	0
Texas Christian U.	466	313	101	46	0	2	153	11	0	0	0	0
U. Wisconsin-River Falls	466	313	55	0	0	0	258	0	0	0	0	0
Stonehill C.	469	311	0	30	0	0	0	0	0	0	0	281
Citadel Military C. South Carolina	470	308	35	0	0	0	0	11	0	0	0	262
SUNY, Buffalo State	471	304	0	210	0	91	2	0	0	0	0	1
Youngstown State U.	472	298	0	0	0	1	283	0	0	0	14	0
Yeshiva U.	473	296	0	0	10	0	286	0	0	0	0	0
Salish Kootenai C.	474	281	0	0	22	0	0	0	0	0	0	259
Minnesota State U., Mankato	475	279	0	0	140	0	0	0	14	0	125	0
West Chester U. Pennsylvania	476	278	0	0	93	41	57	0	0	0	0	87
U. of the Pacific	477	271	0	0	72	0	199	0	0	0	0	0
Fayetteville State U.	478	270	68	0	101	0	101	0	0	0	0	0
Willamette U.	479	267	0	0	24	0	60	61	0	0	0	122
Whitman C.	480	266	0	0	75	0	176	0	15	0	0	0
Gettysburg C.	481	265	0	0	13	5	99	0	148	0	0	0
Albany State U.	482	261	0	0	131	0	0	0	0	0	0	130
Southern Connecticut State U.	483	260	0	0	17	0	200	43	0	0	0	0
Ithaca C.	484	258	39	4	47	64	30	0	74	0	0	0
Northern Michigan U.	485	254	0	74	127	0	0	0	53	0	0	0
Lincoln U., Jefferson City	486	251	0	0	67	150	26	0	0	8	0	0
U. Central Arkansas	487	249	28	0	0	15	167	0	0	0	0	39
Langston U.	488	248	0	0	35	0	92	0	0	0	0	121
Texas Woman's U.	488	248	14	0	230	0	0	0	4	0	0	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas, Tyler	490	240	26	0	146	20	0	0	4	0	44	0
U. Nebraska, Kearney	491	236	0	0	141	0	32	0	0	63	0	0
Pennsylvania State U., Behrend	492	229	22	2	1	2	4	0	0	0	198	0
U. Hartford	493	228	5	0	92	131	0	0	0	0	0	0
Weber State U.	494	217	0	91	28	0	95	0	0	0	0	3
Northern Kentucky U.	495	216	0	0	10	71	120	0	1	0	0	14
U. Minnesota, Morris	496	213	0	176	0	37	0	0	0	0	0	0
U. of Mary Washington	496	213	0	32	85	0	54	12	0	0	0	30
Augusta U.	498	208	28	0	164	13	0	0	3	0	0	0
Midwestern State U.	498	208	0	103	99	6	0	0	0	0	0	0
U. of the Sciences Philadelphia	500	203	0	0	99	0	104	0	0	0	0	0
Colorado C.	501	192	0	52	18	0	15	0	4	0	0	103
Franklin W. Olin C. of Engineering	502	189	0	0	0	0	0	0	0	0	154	35
U. North Georgia	503	188	0	24	16	0	0	0	0	0	0	148
St. Bonaventure U.	504	187	0	0	102	0	38	0	0	47	0	0
U. Wisconsin-Oshkosh	504	187 i	22 i	26 i	23 i	8 i	32 i	2 i	5 i	0 i	58 i	11 i
St. Olaf C.	506	186	121	0	29	23	13	0	0	0	0	0
Dillard U.	507	180	0	0	180	0	0	0	0	0	0	0
Milwaukee School of Engineering	507	180	0	0	0	0	0	0	0	0	180	0
Eastern Connecticut State U.	509	175	0	0	175	0	0	0	0	0	0	0
SUNY, Oswego	510	170	0	7	140	0	0	0	0	12	11	0
Troy U.	511	165	0	0	157	4	0	0	0	0	0	4
U. Ana G. Mendez, Gurabo	512	163	0	0	138	0	25	0	0	0	0	0
Lawrence Technological U.	513	162	0	0	0	0	6	0	0	0	51	105
Indiana State U.	514	161	0	89	0	23	39	0	0	10	0	0
Nova Southeastern U.	515	158	125	6	0	0	0	27	0	0	0	0
Kentucky State U.	516	157	32	0	0	125	0	0	0	0	0	0
Suffolk U.	517	156	0	28	29	0	97	0	0	0	0	2
CUNY, Graduate School of Public Health and Health Policy	518	154	0	0	154	0	0	0	0	0	0	0
Keene State C.	519	152	0	16	128	0	0	0	0	0	8	0
Hawaii Pacific U.	520	150	72	38	13	14	0	0	0	0	13	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. San Francisco	521	148	0	67	0	16	0	0	65	0	0	0
SUNY, C. Brockport	522	145	0	0	75	0	39	0	31	0	0	0
U. South Florida, Saint Petersburg	523	144	0	0	0	0	56	0	0	0	0	88
Eastern Washington U.	524	139	0	0	58	15	66	0	0	0	0	0
C. Wooster	525	138	0	21	3	55	59	0	0	0	0	0
Erikson Institute	526	135	0	0	0	0	0	0	0	0	0	135
Austin Peay State U.	527	128	0	0	128	0	0	0	0	0	0	0
U. Wisconsin-Green Bay	528	124 i	14 i	17 i	18 i	6 i	23 i	1 i	4 i	0 i	35 i	6 i
Benedict C.	529	123	32	24	21	23	23	0	0	0	0	0
Long Island U.	530	113	0	15	0	0	51	0	0	0	0	47
Southeastern Louisiana U.	531	105	0	0	66	0	39	0	0	0	0	0
Northeast Ohio Medical U.	532	102	0	0	67	0	0	0	35	0	0	0
Rhode Island C.	532	102	0	0	84	0	18	0	0	0	0	0
Wheaton C., Wheaton	532	102	0	102	0	0	0	0	0	0	0	0
Alfred U.	535	97	0	0	0	0	0	0	0	0	97	0
CUNY, Medgar Evers C.	536	94	0	0	0	44	50	0	0	0	0	0
Florida Polytechnic U.	537	93	43	0	29	0	0	0	0	0	21	0
Merrimack C.	538	92	0	0	0	0	0	0	0	32	60	0
U.S. Air Force Academy	539	90	0	0	0	0	25	0	65	0	0	0
U. Puerto Rico, Cayey	540	88	0	0	40	0	48	0	0	0	0	0
SUNY, C. Plattsburgh	541	87	0	0	70	0	17	0	0	0	0	0
Texas Tech U., Health Sciences Center	541	87	0	0	59	0	0	0	0	0	0	28
Pittsburg State U.	543	81	0	0	78	0	3	0	0	0	0	0
U. Houston-Clear Lake	543	81	3	0	14	0	64	0	0	0	0	0
Western Illinois U.	545	80	0	5	36	0	39	0	0	0	0	0
Rhode Island School of Design	546	79 i	14 i	0 i	50 i	0 i	0 i	0 i	6 i	0 i	0 i	9 i
Alaska Pacific U.	547	78	0	51	0	0	0	0	0	0	0	27
U. Massachusetts, central office	547	78	0	0	0	0	0	0	0	0	0	78
Alcorn State U.	549	74	0	0	0	0	0	0	0	0	74	0
Andrews U.	550	72	0	35	0	0	0	0	0	0	37	0
Albion C.	551	70	0	0	0	0	70	0	0	0	0	0

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado State U., Pueblo	552	68	0	0	27	6	0	0	0	0	35	0
Claremont Graduate U.	553	67	0	0	0	0	0	52	15	0	0	0
Biola U.	554	66 i	8 i	0 i	6 i	3 i	14 i	1 i	1 i	0 i	31 i	2 i
Louisiana State U., Health Sciences Center, New Orleans	554	66	0	0	66	0	0	0	0	0	0	0
Texas Tech U., Health Sciences Center, El Paso	554	66	0	0	66	0	0	0	0	0	0	0
U. Wisconsin-Platteville	557	65 i	4 i	11 i	11 i	6 i	16 i	1 i	1 i	0 i	5 i	10 i
New Jersey City U.	558	64	0	0	0	0	64	0	0	0	0	0
U. Arkansas, Pine Bluff	559	62	0	0	0	0	62	0	0	0	0	0
SUNY, Upstate Medical U.	560	61	0	0	61	0	0	0	0	0	0	0
U. Tennessee, Health Science Center	561	60	0	0	60	0	0	0	0	0	0	0
California Lutheran U.	562	59	0	0	0	0	59	0	0	0	0	0
Touro U.	563	58	0	0	58	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	563	58	0	0	16	0	42	0	0	0	0	0
Morehead State U.	565	57	0	7	0	0	0	0	0	0	33	17
Hamilton C.	566	55	0	0	26	0	3	0	26	0	0	0
Keck Graduate Institute	566	55 i	15 i	0 i	11 i	6 i	0 i	0 i	0 i	0 i	19 i	4 i
Mercyhurst U.	568	54 i	9 i	10 i	8 i	4 i	18 i	1 i	1 i	0 i	0 i	3 i
Columbus State U.	569	53	35	0	18	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	569	53	0	0	53	0	0	0	0	0	0	0
Central Connecticut State U.	571	52	0	0	0	0	52	0	0	0	0	0
Emerson C.	572	49	0	0	0	0	0	0	49	0	0	0
Connecticut C.	573	48	0	0	48	0	0	0	0	0	0	0
Dine C.	573	48	0	0	48	0	0	0	0	0	0	0
Midwestern U.	575	47	0	0	47	0	0	0	0	0	0	0
Lipscomb U.	576	46 i	7 i	0 i	6 i	2 i	14 i	1 i	2 i	0 i	12 i	2 i
Oklahoma State U., Center for Health Sciences	576	46	0	0	0	0	0	0	0	0	46	0
C. of Saint Benedict	578	43 i	23 i	0 i	0 i	0 i	20 i	0 i	0 i	0 i	0 i	0 i
Fort Hays State U.	579	40	0	37	0	0	0	0	0	0	0	3

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Texas, Health Science Center	580	38	0	0	38	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	581	37	0	0	37	0	0	0	0	0	0	0
U. Baltimore	581	37	10	0	0	0	0	0	27	0	0	0
U. Southern Maine	581	37	0	0	11	0	0	0	14	0	0	12
Van Andel Research Institute	584	36	0	0	36	0	0	0	0	0	0	0
Mercer U.	585	35	15	0	0	0	0	0	20	0	0	0
U. Louisiana, Monroe	586	31	0	29	2	0	0	0	0	0	0	0
U. Wisconsin-Superior	587	30	0	30	0	0	0	0	0	0	0	0
Jacksonville State U.	588	27	0	0	16	0	0	0	0	0	11	0
Dickinson C.	589	26	0	0	25	0	0	0	1	0	0	0
Oregon Institute of Technology	589	26	0	0	0	0	0	0	0	0	26	0
New York Medical C.	591	25	0	0	25	0	0	0	0	0	0	0
Pennsylvania State U., Harrisburg	592	24	1	2	1	0	0	0	0	0	20	0
Elon U.	593	22	0	0	0	0	0	0	0	0	22	0
U. Detroit Mercy	594	20	0	0	0	0	0	0	0	0	20	0
Bradley U.	595	15	0	0	0	0	0	0	0	0	15	0
Babson C.	596	14	0	0	0	0	0	0	0	0	0	14
Azusa Pacific U.	597	12	0	0	0	0	12	0	0	0	0	0
Morehouse School of Medicine	598	11	0	0	11	0	0	0	0	0	0	0
Texas A&M International U.	598	11	0	0	0	0	0	0	0	11	0	0
U. Ana G. Mendez, Carolina	598	11	0	0	11	0	0	0	0	0	0	0
Framingham State U.	601	10	0	0	0	0	0	10	0	0	0	0
Marshall B. Ketchum U.	601	10 i	0 i	0 i	10 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U.S. Military Academy	601	10	2	0	0	0	8	0	0	0	0	0
U. Texas of the Permian Basin	604	6	0	0	0	0	0	6	0	0	0	0
La Sierra U.	605	4	0	0	4	0	0	0	0	0	0	0
Tarleton State U.	605	4	0	0	2	2	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	607	2	0	0	2	0	0	0	0	0	0	0
U. Illinois, Springfield	607	2	0	0	0	0	0	0	0	0	0	2

TABLE 63

Federally financed higher education R&D expenditures, financed by the National Science Foundation, ranked by NSF R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	NSF R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Des Moines U.	609	1	0	1	0	0	0	0	0	0	0	0
Edward Via C. of Osteopathic Medicine	609	1	0	0	1	0	0	0	0	0	0	0

i = imputed.

NSF = National Science Foundation; nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $2,170 thousand in R&D expenditures financed by NSF in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	1,244,633	6,186	32,505	1,022,353	6,034	3,737	6,330	46,934	7,601	74,101	38,852
U. Florida	1	43,720	0	421	37,423	115	102	0	741	0	2,552	2,366
Colorado State U., Fort Collins	2	42,736	0	5,302	29,951	441	100	0	2,321	7	1,085	3,529
North Carolina State U.	3	40,652	0	1,196	35,573	117	0	78	1,170	123	2,384	11
Texas A&M U., College Station and Health Science Center	4	39,135	143	1,545	34,668	106	66	0	1,606	0	742	259
Cornell U.	5	39,077	39	79	35,987	0	0	106	470	0	1,069	1,327
Ohio State U.	6	37,563	0	42	19,893	0	8	0	1,386	52	3,156	13,026
Washington State U.	7	36,033	0	313	30,940	0	0	1	1,659	36	2,124	960
Iowa State U.	8	35,066	255	0	25,809	4,459	19	0	553	0	3,810	161
U. California, Davis	9	35,042	19	877	32,696	0	0	0	389	0	1,061	0
Pennsylvania State U., University Park and Hershey Medical Center	10	33,490	69	199	27,705	3	86	3,171	653	0	150	1,454
Michigan State U.	11	32,081	71	854	27,165	10	0	0	1,883	47	1,758	293
U. Minnesota, Twin Cities	12	31,472	160	0	22,718	0	0	131	1,720	0	6,573	170
Oregon State U.	13	30,810	2,632	128	24,147	27	0	0	535	882	2,385	74
U. Georgia	14	30,754	0	61	25,033	25	0	18	3,947	0	1,607	63
Mississippi State U.	15	29,349	3	41	26,833	0	18	0	1,719	403	319	13
Rutgers, State U. New Jersey, New Brunswick	16	25,408	0	0	20,717	0	51	0	341	0	4,299	0
Kansas State U.	17	24,157	102	269	17,995	0	0	1,212	2,372	0	1,063	1,144
U. Maryland[a]	18	24,124	11	129	22,667	0	46	0	236	0	901	134
U. Wisconsin-Madison	19	22,764	0	34	19,200	0	0	0	1,484	77	1,969	0
Purdue U., West Lafayette	20	21,983	9	0	16,999	15	0	0	1,341	0	3,264	355
U. Nebraska, Lincoln	21	20,474	238	0	17,847	130	0	0	182	0	1,831	246
U. Missouri, Columbia	22	20,423	0	24	19,529	16	0	0	32	0	727	95
U. Illinois, Urbana-Champaign	23	18,648	131	0	15,532	2	10	879	45	0	1,863	186
Virginia Polytechnic Institute and State U.	24	18,511	315	1	15,667	96	13	1	1,449	0	353	616
U. Tennessee, Knoxville[b]	25	16,486	0	82	11,091	0	53	0	75	2,683	2,439	63
U. Arizona	26	15,712	12	102	12,387	49	0	0	459	0	2,655	48
U. Maine	27	15,677	0	533	13,854	0	0	0	0	0	439	851
Tufts U.	28	14,929	0	0	14,840	0	0	0	85	4	0	0
Baylor C. of Medicine	29	14,847	0	0	14,847	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Idaho	30	14,375	0	284	11,859	0	0	0	1,634	0	574	24
U. Arkansas, Fayetteville	31	13,303	0	218	11,068	2	0	0	565	0	1,120	330
U. Kentucky	32	13,226	140	0	10,706	0	0	0	493	0	1,120	767
U. California, Riverside	33	12,507	30	1,375	10,549	0	4	0	64	0	485	0
Auburn U., Auburn	34	12,104	0	201	10,968	0	32	0	163	15	691	34
South Dakota State U.	35	11,354	0	58	10,174	0	4	122	478	0	446	72
Utah State U.	36	11,169	0	67	10,471	53	122	0	233	0	184	39
North Dakota State U.	37	11,153	0	0	9,869	0	0	15	186	0	1,061	22
Montana State U., Bozeman	38	11,034	0	262	10,504	0	0	0	7	0	247	14
U. Hawaii, Manoa	39	10,321	0	0	8,500	0	0	0	33	1,102	494	192
U. Vermont	40	10,145	0	0	10,145	0	0	0	0	0	0	0
New Mexico State U.	41	9,204	0	933	7,735	0	0	0	33	12	411	80
Oklahoma State U., Stillwater	42	8,853	0	16	7,508	0	0	0	47	0	797	485
U. New Hampshire	43	8,822	0	446	8,345	0	0	0	7	0	0	24
Florida A&M U.	44	8,820	0	409	8,074	0	0	0	0	0	337	0
Louisiana State U., Baton Rouge	45	8,545	0	0	7,914	0	0	0	373	0	258	0
U. Massachusetts, Amherst	46	8,480	0	105	7,873	24	39	0	252	0	143	44
West Virginia U.	47	7,612	0	8	6,932	0	0	0	164	316	143	49
U. Wyoming	48	7,435	6	0	7,257	0	0	0	0	158	0	14
U. Washington, Seattle	49	7,016	0	395	6,535	0	0	0	9	0	77	0
Alcorn State U.	50	6,790	0	0	3,983	0	0	0	2,807	0	0	0
U. Mississippi	51	6,060	0	195	4,071	0	793	0	0	0	969	32
U. Nevada, Reno	52	6,038	14	296	4,621	0	104	0	850	37	116	0
U. Montana, Missoula	53	5,802	46	50	4,857	0	0	0	801	0	0	48
U. Connecticut	54	5,757	0	70	4,898	0	0	45	673	0	57	14
Tennessee State U.	55	5,746	63	0	5,600	0	0	0	0	0	0	83
Tuskegee U.	56	5,475	0	0	5,209	0	0	0	260	0	6	0
Langston U.	57	5,429	0	0	5,155	0	1	0	0	0	0	273
U. Rhode Island	58	5,328	0	3,032	1,620	0	0	0	482	175	0	19
U. Delaware	59	5,316	0	106	4,429	0	0	0	724	0	55	2
Prairie View A&M U.	60	4,945	0	0	4,759	0	17	0	0	0	147	22
Clemson U.	61	4,869	478	0	2,199	0	0	0	129	0	139	1,924

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
North Carolina Agricultural and Technical State U.	62	4,600	0	19	4,544	0	0	0	0	0	0	37
Texas A&M U.-Kingsville	63	4,530	0	0	4,528	0	0	0	0	0	2	0
Northern Arizona U.	64	4,379	0	188	4,077	0	0	0	0	1	113	0
Kentucky State U.	65	4,299	0	0	4,299	0	0	0	0	0	0	0
Fort Valley State U.	66	4,155	0	0	4,155	0	0	0	0	0	0	0
Tarleton State U.	67	3,822	0	415	3,407	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	68	3,790	0	0	3,790	0	0	0	0	0	0	0
Virginia State U.	69	3,499	0	0	3,499	0	0	0	0	0	0	0
Lincoln U., Jefferson City	70	3,385	0	0	3,284	0	0	0	4	97	0	0
Delaware State U.	71	3,326 i	0 i	0 i	3,153 i	0 i	0 i	0 i	173 i	0 i	0 i	0 i
U. of the Virgin Islands	72	3,218	0	0	3,218	0	0	0	0	0	0	0
U. California, Berkeley	73	3,129	0	0	2,478	0	0	0	0	283	228	140
U. North Carolina, Chapel Hill	74	2,886	0	20	2,623	0	0	0	19	0	0	224
U. Guam	75	2,604	0	112	2,479	0	0	0	0	0	0	13
Central State U.	76	2,514	0	125	2,389	0	0	0	0	0	0	0
West Virginia State U.	77	2,458	0	0	2,458	0	0	0	0	0	0	0
U. Maryland, Eastern Shore	78	2,361	0	0	2,278	0	7	0	0	0	76	0
Texas Tech U.	79	2,095	0	3	1,490	0	12	0	381	0	160	49
Southern U. and A&M C., Agricultural Research and Extension Center	80	2,085	0	0	2,085	0	0	0	0	0	0	0
U. Texas Health Science Center, Houston	81	2,051	0	0	2,051	0	0	0	0	0	0	0
U. Nevada, Las Vegas	82	2,033	0	1,810	152	0	0	0	0	0	70	1
Arizona State U.	83	2,000	0	0	506	54	0	353	794	160	133	0
U. Alaska, Fairbanks	84	1,979	0	68	1,836	0	50	0	0	12	13	0
U. North Dakota	85	1,936	0	100	44	0	0	0	0	0	0	1,792
U. Texas Rio Grande Valley	86	1,905	72	0	1,355	0	217	0	0	0	165	96
U. Michigan, Ann Arbor	87	1,809	0	0	1,605	0	0	2	135	0	57	10
Cold Spring Harbor Laboratory	88	1,785	0	0	1,785	0	0	0	0	0	0	0
U. Colorado Boulder	89	1,705	0	3	909	44	0	0	314	0	435	0
Michigan Technological U.	90	1,559	0	1,551	5	0	0	0	3	0	0	0
SUNY, C. of Environmental Science and Forestry	91	1,529	0	69	1,326	0	3	0	21	0	110	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Johns Hopkins U.[c]	92	1,517	21	600	403	2	0	0	0	0	491	0
U. Oklahoma, Norman and Health Science Center	93	1,354	0	136	986	0	0	0	0	0	232	0
Drexel U.	94	1,336	0	0	1,172	0	0	0	0	0	164	0
Southern Illinois U., Carbondale	95	1,327	0	0	1,007	0	0	0	0	320	0	0
U. Virginia, Charlottesville	96	1,292	0	33	1,168	0	0	0	81	0	0	10
U. Texas, El Paso	97	1,260	0	66	357	0	106	0	238	0	493	0
U. California, Merced	98	1,252	0	43	299	0	0	0	0	0	833	77
Arkansas State U., Jonesboro	99	1,217	0	0	1,165	0	0	0	52	0	0	0
California Polytechnic State U., San Luis Obispo	100	1,181	0	0	822	0	0	0	329	0	0	30
Florida International U.	101	1,172	0	0	917	0	8	0	0	0	0	247
Florida State U.	102	1,160	0	419	687	0	54	0	0	0	0	0
U. Southern Mississippi	103	1,158	0	28	215	0	0	0	0	0	0	915
U. California, San Diego	104	1,115	0	14	967	0	0	0	134	0	0	0
U. Central Florida	105	1,067	0	0	234	0	0	0	17	0	588	228
Western Illinois U.	106	957	0	0	943	0	14	0	0	0	0	0
U. California, Santa Cruz	107	951	0	736	154	0	0	0	49	0	0	12
Portland State U.	108	945	0	53	769	0	0	0	53	0	70	0
U. of the District of Columbia	109	879	0	0	235	0	0	0	0	0	0	644
Syracuse U.	110	858	0	33	506	0	0	0	232	0	87	0
Florida Atlantic U.	111	857	0	16	675	0	0	0	0	0	166	0
Georgia Institute of Technology	112	856	0	0	14	0	0	0	58	0	757	27
New York U.	113	854	0	0	854	0	0	0	0	0	0	0
U. Kansas	114	849	55	40	305	0	0	0	0	0	227	222
Boise State U.	115	831	0	63	688	0	49	0	0	0	0	31
U. Pennsylvania	116	830	0	13	611	0	0	0	194	0	10	2
Vanderbilt U. and Vanderbilt U. Medical Center	117	802	0	0	634	0	0	0	0	0	168	0
U. Iowa	118	798	0	0	423	0	14	0	17	0	317	27
Duke U.	119	719	0	144	395	0	0	0	169	0	0	11
Missouri State U.	120	713	0	0	639	0	0	0	74	0	0	0
U. South Florida, Tampa	121	688	0	42	0	0	0	0	352	0	173	121

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Baylor U.	122	665	0	20	582	0	0	0	60	0	0	3
Hawaii Pacific U.	123	654	0	0	654	0	0	0	0	0	0	0
U. Utah	124	635	0	14	438	0	0	0	38	0	135	10
Desert Research Institute	125	634	0	634	0	0	0	0	0	0	0	0
U. Puerto Rico, Mayaguez	126	626	0	9	557	0	0	0	12	0	48	0
U. Texas, San Antonio	127	625	0	0	75	0	104	0	0	0	446	0
St. Edward's U.	128	615	0	0	525	0	0	0	40	0	0	50
U. Toledo	129	605	0	113	356	0	0	0	0	0	136	0
Colorado School of Mines	130	600	0	76	105	0	0	0	10	0	409	0
U. New Mexico	131	588	0	83	440	0	35	0	0	0	0	30
Stephen F. Austin State U.	132	585	0	0	518	0	0	0	67	0	0	0
Indiana U. Pennsylvania	133	581	0	0	581	0	0	0	0	0	0	0
U. North Carolina, Greensboro	134	569	0	0	526	0	0	0	43	0	0	0
Sam Houston State U.	135	561	0	0	428	22	0	0	111	0	0	0
Boston U.	136	560	0	358	202	0	0	0	0	0	0	0
U. Alabama, Tuscaloosa	137	558	0	0	390	0	0	0	141	0	12	15
Dartmouth C. and Dartmouth Hitchcock Medical Center	138	557	0	0	245	0	0	0	70	0	242	0
Middle Tennessee State U.	139	547	0	0	532	0	15	0	0	0	0	0
U. Puerto Rico, Rio Piedras	139	547	0	413	134	0	0	0	0	0	0	0
Carnegie Mellon U.	141	538	111	0	427	0	0	0	0	0	0	0
U. Maryland, Baltimore County	142	534	0	217	285	0	0	0	20	12	0	0
Indiana U., Bloomington	143	531	0	0	350	0	0	0	181	0	0	0
Tennessee Technological U.	144	512	0	0	435	0	0	0	0	0	77	0
U. Hawaii, Hilo	145	511	0	0	363	0	0	0	12	136	0	0
U. Oregon	146	499	0	0	227	0	0	0	164	0	0	108
U. Texas, Austin	147	489	23	163	295	0	0	0	0	0	0	8
U. Wisconsin-Stevens Point	147	489	0	3	439	0	0	0	0	0	47	0
Brigham Young U., Provo	149	483	0	0	308	0	0	0	66	0	109	0
U. Minnesota, Duluth	150	480	0	60	420	0	0	0	0	0	0	0
California State U., Fresno	151	477	0	0	477	0	0	0	0	0	0	0
Illinois Institute of Technology	152	466	0	0	466	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ohio U.	153	461	0	8	126	0	252	0	31	0	0	44
Western U. of Health Sciences	154	456	0	0	456	0	0	0	0	0	0	0
Humboldt State U.	155	453	0	0	401	0	0	0	52	0	0	0
U. Southern California	156	449	281	0	20	0	23	3	71	0	51	0
Northwestern U.	157	448	0	0	136	0	0	0	0	0	312	0
Texas State U.	158	445	0	0	331	0	0	0	2	0	112	0
New Jersey Institute of Technology	159	436	0	0	0	0	131	0	0	0	305	0
Western Kentucky U.	160	430	0	30	273	0	127	0	0	0	0	0
Georgia State U.	161	412	74	0	142	0	0	0	148	0	0	48
U. California, Santa Barbara	162	410	0	162	215	0	0	0	33	0	0	0
Missouri U. of Science and Technology	163	408	248	0	0	0	0	0	0	0	160	0
West Texas A&M U.	164	401	0	0	401	0	0	0	0	0	0	0
Illinois State U.	165	388	0	0	388	0	0	0	0	0	0	0
U. California, Los Angeles	166	384	0	211	12	0	0	0	0	0	161	0
U. South Carolina, Columbia	167	378	0	0	192	0	0	0	0	0	0	186
U. Nebraska, Medical Center	168	376	0	0	376	0	0	0	0	0	0	0
U. Illinois, Chicago	169	374	0	0	348	0	0	0	26	0	0	0
U. Massachusetts, Medical School	170	369	0	0	369	0	0	0	0	0	0	0
Louisiana Tech U.	171	365	0	0	350	0	0	0	0	0	15	0
California State U., San Bernardino	172	346	0	0	346	0	0	0	0	0	0	0
U. Louisiana, Lafayette	173	339	0	0	122	0	0	0	0	0	40	177
Wayne State U.	174	333	0	0	92	0	0	0	0	0	0	241
U. Maryland Center for Environmental Science	175	330	0	2	269	0	0	0	59	0	0	0
California State Polytechnic U., Pomona	176	327	0	0	327	0	0	0	0	0	0	0
Stanford U.	177	319	0	118	41	0	0	0	106	0	54	0
U. South Alabama	178	306	0	0	0	0	0	0	306	0	0	0
George Washington U.	179	305	11	0	101	0	0	0	0	0	128	65
Chapman U.	180	293	0	6	263	0	24	0	0	0	0	0
San Jose State U.	181	288	0	288	0	0	0	0	0	0	0	0
SUNY, U. Albany	182	287	0	0	226	0	61	0	0	0	0	0
California State U., Northridge	183	285	0	0	262	0	0	0	0	23	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, U. Buffalo	184	280	0	0	118	0	152	0	10	0	0	0
Case Western Reserve U.	185	274	0	65	113	0	0	0	0	0	96	0
California State U., Fullerton	186	272	33	0	231	0	0	0	0	8	0	0
U. Notre Dame	186	272	0	0	223	0	41	0	0	0	8	0
Princeton U.	188	271	0	0	271	0	0	0	0	0	0	0
Albany State U.	189	270	0	0	270	0	0	0	0	0	0	0
California State U., Monterey Bay	190	248	0	0	248	0	0	0	0	0	0	0
Rensselaer Polytechnic Institute	191	240	0	0	0	0	0	0	0	0	0	240
Long Island U.	192	235	0	0	235	0	0	0	0	0	0	0
U. South Florida, Saint Petersburg	193	230	0	0	230	0	0	0	0	0	0	0
South Dakota School of Mines and Technology	194	229	0	0	0	0	0	0	0	0	229	0
Alabama A&M U.	195	227 i	2 i	0 i	198 i	2 i	2 i	3 i	3 i	0 i	8 i	9 i
Northwest Indian C.	196	224 i	0 i	209 i	15 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Western Carolina U.	196	224	0	0	66	0	0	0	158	0	0	0
Old Dominion U.	198	223	0	0	80	0	119	0	0	0	24	0
U. Texas, Tyler	199	218	0	0	218	0	0	0	0	0	0	0
U. Wisconsin-Milwaukee	200	216	0	56	160	0	0	0	0	0	0	0
California State U., San Marcos	201	215	0	0	47	0	0	0	168	0	0	0
San Diego State U.	202	201	0	4	92	0	0	0	91	14	0	0
Indiana U.-Purdue U., Indianapolis	203	200	133	31	0	0	0	0	0	0	0	36
Loyola U., Chicago	204	199	0	0	199	0	0	0	0	0	0	0
Harvard U.	205	196	0	100	96	0	0	0	0	0	0	0
California State U., Chico	206	191	0	0	191	0	0	0	0	0	0	0
California State U., Bakersfield	207	190	0	0	48	0	0	0	0	0	142	0
U. Alabama, Huntsville	208	189	0	101	0	0	0	0	0	0	88	0
California State U., Sacramento	209	186	0	0	29	0	0	0	55	66	0	36
Worcester Polytechnic Institute	210	185	0	0	0	106	0	0	0	0	79	0
U. North Carolina, Asheville	211	184	0	4	0	0	173	0	0	0	0	7
Fort Hays State U.	212	183	0	0	183	0	0	0	0	0	0	0
Towson U.	213	181	21	0	160	0	0	0	0	0	0	0
Rice U.	214	179	0	0	131	0	0	0	0	0	48	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
American U.	215	174	0	0	0	0	17	0	0	157	0	0
U. North Texas, Denton	215	174	0	0	136	0	0	0	0	0	38	0
Salish Kootenai C.	217	173	0	0	150	0	0	0	0	0	0	23
Benedict C.	218	168	0	0	0	0	0	0	0	0	168	0
Lamar U.	218	168	0	0	0	0	0	0	0	0	168	0
Emory U.	220	166	0	33	133	0	0	0	0	0	0	0
U. Alaska, Anchorage	221	163	0	0	163	0	0	0	0	0	0	0
U. Texas, Arlington	222	160	0	0	27	60	0	0	0	0	73	0
U. Rochester	223	157	0	0	157	0	0	0	0	0	0	0
William & Mary	224	155	0	144	11	0	0	0	0	0	0	0
Embry-Riddle Aeronautical U.	225	153	0	115	0	0	0	0	38	0	0	0
George Mason U.	225	153	93	60	0	0	0	0	0	0	0	0
Hobart and William Smith Colleges	225	153	0	0	153	0	0	0	0	0	0	0
Wake Forest U.	225	153	0	0	138	0	0	0	0	0	0	15
Smith C.	229	150	0	0	0	0	0	150	0	0	0	0
U. Massachusetts, Lowell	230	147	0	0	147	0	0	0	0	0	0	0
U. California, Irvine	231	146	0	35	73	0	0	38	0	0	0	0
U. Houston	232	143	12	27	56	0	0	0	0	0	0	48
U. Arkansas, Little Rock	233	142	0	0	142	0	0	0	0	0	0	0
Wright State U.	234	141	0	0	141	0	0	0	0	0	0	0
C. Charleston	235	136	0	50	86	0	0	0	0	0	0	0
Clarkson U.	236	134	0	0	0	0	0	0	0	0	134	0
U. Central Arkansas	237	132	0	0	1	0	0	0	0	131	0	0
U. New England	238	131	0	0	131	0	0	0	0	0	0	0
U. Wisconsin-River Falls	239	129	0	0	64	0	0	0	0	0	65	0
Idaho State U.	240	128	0	37	50	0	0	0	41	0	0	0
Marquette U.	241	127	0	0	84	0	0	0	0	0	43	0
U. North Florida	242	126	0	0	126	0	0	0	0	0	0	0
South Carolina State U.	243	124 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	124 i
SUNY, Stony Brook U.	244	123	0	123	0	0	0	0	0	0	0	0
U. Colorado Denver and Anschutz Medical Campus	244	123	0	0	123	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Southern U. and A&M C., Baton Rouge	246	122	0	0	122	0	0	0	0	0	0	0
Washington U., Saint Louis	246	122	0	0	0	0	0	0	0	0	122	0
Bowling Green State U.	248	121	0	75	46	0	0	0	0	0	0	0
Yale U.	249	119	0	0	119	0	0	0	0	0	0	0
Fort Lewis C.	250	116	0	34	73	0	9	0	0	0	0	0
U. Richmond	250	116	0	0	116	0	0	0	0	0	0	0
Wichita State U.	252	113	0	0	56	0	0	0	0	0	57	0
U. Missouri, Saint Louis	253	110	0	0	110	0	0	0	0	0	0	0
U. Massachusetts, Dartmouth	254	109	0	40	69	0	0	0	0	0	0	0
U. Northern Iowa	254	109	0	0	94	0	0	0	15	0	0	0
Montclair State U.	256	108	0	94	14	0	0	0	0	0	0	0
Purdue U., Fort Wayne	257	107	0	0	103	0	0	0	4	0	0	0
Florida Institute of Technology	258	96	0	0	0	0	0	0	0	0	96	0
U. California, Office of the President	259	94	0	0	94	0	0	0	0	0	0	0
East Carolina U.	260	93	0	0	43	0	0	0	37	0	13	0
Northeastern Illinois U.	260	93	0	0	0	0	0	0	0	0	0	93
Occidental C.	262	90	0	0	90	0	0	0	0	0	0	0
Sul Ross State U.	262	90	0	0	90	0	0	0	0	0	0	0
Clark U.	264	88	0	0	0	0	0	0	88	0	0	0
California State U., Long Beach	265	87	0	0	87	0	0	0	0	0	0	0
Rowan U.	266	86	0	0	0	0	0	0	0	0	86	0
Virginia Commonwealth U.	266	86	0	9	40	0	0	0	0	0	28	9
Oregon Health and Science U.	268	82	0	0	82	0	0	0	0	0	0	0
New York Institute of Technology	269	81	0	0	81	0	0	0	0	0	0	0
Heidelberg U.	270	80	0	80	0	0	0	0	0	0	0	0
Temple U.	270	80	0	0	80	0	0	0	0	0	0	0
Saint Louis U.	272	79	0	13	66	0	0	0	0	0	0	0
U. Alaska, Southeast	272	79	0	0	43	0	0	0	0	36	0	0
U. Alabama, Birmingham	274	74	0	0	73	0	0	0	0	0	1	0
U. Pittsburgh, Pittsburgh	274	74	0	0	40	0	0	0	34	0	0	0
U. Louisiana, Monroe	276	72	0	0	72	0	0	0	0	0	0	0
Troy U.	277	71	0	0	71	0	0	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Wisconsin-Platteville	278	69 i	0 i	1 i	67 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
Texas Woman's U.	279	67	0	0	67	0	0	0	0	0	0	0
Framingham State U.	280	66	0	0	0	0	66	0	0	0	0	0
Salisbury U.	281	64	0	0	0	0	0	0	0	0	0	64
U. Cincinnati	282	63	0	0	53	0	0	0	0	0	10	0
U. of the Pacific	282	63	0	0	0	0	0	0	0	0	63	0
Purdue U., Northwest	284	62	0	0	0	0	0	0	0	0	62	0
Texas A&M U.-Commerce	284	62	0	0	18	0	0	0	44	0	0	0
U. Central Oklahoma	286	60 i	0 i	0 i	59 i	0 i	0 i	0 i	0 i	0 i	1 i	0 i
CUNY, Brooklyn C.	287	59	0	0	59	0	0	0	0	0	0	0
Barnard C.	288	57	0	0	57	0	0	0	0	0	0	0
U. North Carolina, Wilmington	289	55	0	0	55	0	0	0	0	0	0	0
Winston-Salem State U.	290	53	0	0	53	0	0	0	0	0	0	0
CUNY, Graduate School of Public Health and Health Policy	291	52	0	0	52	0	0	0	0	0	0	0
Miami U.	291	52	0	0	52	0	0	0	0	0	0	0
Morgan State U.	291	52	0	0	37	0	0	0	0	0	15	0
Columbia U. in the City of New York	294	48	0	14	21	0	0	0	0	0	0	13
West Chester U. Pennsylvania	294	48	0	0	48	0	0	0	0	0	0	0
Thomas Jefferson U.	296	47	0	0	47	0	0	0	0	0	0	0
Tulane U.	296	47	0	21	26	0	0	0	0	0	0	0
Stockton U.	298	46	0	0	46	0	0	0	0	0	0	0
Rhode Island School of Design	299	45 i	1 i	0 i	42 i	0 i	0 i	0 i	2 i	0 i	0 i	0 i
Southern Illinois U., Edwardsville	299	45	0	0	2	0	0	0	0	0	43	0
Hope C.	301	44	0	0	44	0	0	0	0	0	0	0
Murray State U.	302	43	0	0	43	0	0	0	0	0	0	0
Texas A&M International U.	302	43	0	0	0	0	0	0	0	0	0	43
Appalachian State U.	304	42	9	0	27	0	6	0	0	0	0	0
Georgia Southern U.	304	42	0	0	28	0	0	0	0	0	14	0
Clark Atlanta U.	306	41	0	0	0	0	41	0	0	0	0	0
U. Arkansas for Medical Sciences	306	41	0	0	41	0	0	0	0	0	0	0
Montana Technological U.	308	40	0	18	0	0	0	0	0	0	22	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Alaska Pacific U.	309	38	0	0	38	0	0	0	0	0	0	0
Reed C.	309	38	0	0	5	33	0	0	0	0	0	0
U. Wisconsin-Green Bay	309	38 i	0 i	2 i	30 i	0 i	0 i	0 i	1 i	0 i	3 i	2 i
Western Washington U.	309	38	0	36	2	0	0	0	0	0	0	0
Grand Valley State U.	313	36	0	3	11	0	0	0	22	0	0	0
U. Memphis	313	36	0	8	0	0	0	0	0	0	22	6
Roger Williams U.	315	34	0	34	0	0	0	0	0	0	0	0
CUNY, Advanced Science Research Center	316	33	0	0	33	0	0	0	0	0	0	0
U. North Texas, Health Science Center	316	33	0	0	33	0	0	0	0	0	0	0
Loyola Marymount U.	318	32	0	32	0	0	0	0	0	0	0	0
Rockefeller U.	318	32	0	0	32	0	0	0	0	0	0	0
East Tennessee State U.	320	29	0	0	27	0	2	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	320	29	0	29	0	0	0	0	0	0	0	0
Creighton U.	322	28 i	0 i	0 i	22 i	0 i	0 i	1 i	1 i	0 i	0 i	4 i
CUNY, Lehman C.	322	28	0	0	28	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	322	28	0	0	0	0	28	0	0	0	0	0
Rochester Institute of Technology	325	26	0	0	0	0	26	0	0	0	0	0
U. Miami	325	26	0	0	26	0	0	0	0	0	0	0
U. of St. Thomas (MN)	325	26	0	0	0	0	0	0	26	0	0	0
Austin Peay State U.	328	25	0	0	25	0	0	0	0	0	0	0
U. Colorado Colorado Springs	329	24	0	1	0	0	0	0	0	0	0	23
Southern Connecticut State U.	330	22	0	0	22	0	0	0	0	0	0	0
Midwestern U.	331	21	0	0	21	0	0	0	0	0	0	0
Swarthmore C.	331	21	0	0	0	21	0	0	0	0	0	0
U. North Georgia	331	21	0	21	0	0	0	0	0	0	0	0
U. Wisconsin-Oshkosh	331	21 i	0 i	3 i	10 i	0 i	1 i	1 i	3 i	0 i	1 i	2 i
Central Washington U.	335	20	0	0	19	0	0	0	1	0	0	0
Dickinson C.	335	20	0	0	4	0	16	0	0	0	0	0
Northeastern U.	335	20	0	19	1	0	0	0	0	0	0	0
SUNY, Upstate Medical U.	335	20	0	0	20	0	0	0	0	0	0	0
Dine C.	339	19	0	0	19	0	0	0	0	0	0	0
San Francisco State U.	339	19 i	0 i	0 i	3 i	0 i	0 i	0 i	0 i	16 i	0 i	0 i

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Washington, Tacoma	341	18	0	0	18	0	0	0	0	0	0	0
Fairfield U.	342	17	0	0	0	0	17	0	0	0	0	0
Northeast Ohio Medical U.	342	17	0	0	17	0	0	0	0	0	0	0
Oakland U.	342	17	0	0	17	0	0	0	0	0	0	0
Texas A&M U.-Corpus Christi	342	17	0	0	0	0	17	0	0	0	0	0
Kennesaw State U.	346	16	0	0	16	0	0	0	0	0	0	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	346	16	0	0	16	0	0	0	0	0	0	0
Woods Hole Oceanographic Institution	346	16	0	16	0	0	0	0	0	0	0	0
Ball State U.	349	15	0	0	3	0	0	0	0	0	0	12
California State U., Los Angeles	349	15	0	0	15	0	0	0	0	0	0	0
James Madison U.	349	15	0	0	3	0	4	0	8	0	0	0
Lehigh U.	352	14	0	0	0	0	0	0	0	0	0	14
Bowie State U.	353	13	0	0	13	0	0	0	0	0	0	0
Pittsburg State U.	353	13	0	0	0	0	0	0	0	0	13	0
U. Northern Colorado	353	13	0	0	13	0	0	0	0	0	0	0
Morehead State U.	356	12	0	0	12	0	0	0	0	0	0	0
Northern Illinois U.	356	12	0	0	12	0	0	0	0	0	0	0
U. Tulsa	358	11	0	0	11	0	0	0	0	0	0	0
North Carolina Central U.	359	10	0	0	0	0	0	0	0	0	10	0
Seattle U.	359	10	0	0	0	0	0	0	0	0	10	0
U. Dayton	359	10	0	0	10	0	0	0	0	0	0	0
Central Connecticut State U.	362	8	0	0	8	0	0	0	0	0	0	0
Kent State U.	362	8	0	0	0	0	0	0	0	0	0	8
Weber State U.	362	8	0	0	0	0	0	0	0	0	0	8
SUNY, C. Brockport	365	7	0	0	7	0	0	0	0	0	0	0
U. Washington, Bothell	365	7	0	0	0	0	0	0	0	0	0	7
Grinnell C.	367	6	0	0	6	0	0	0	0	0	0	0
U. Louisville	367	6	0	0	6	0	0	0	0	0	0	0
U. Texas Medical Branch	367	6	0	0	6	0	0	0	0	0	0	0
C. Wooster	370	5	0	0	5	0	0	0	0	0	0	0
CUNY, City C.	370	5	0	0	0	0	5	0	0	0	0	0

TABLE 64

Federally financed higher education R&D expenditures, financed by the Department of Agriculture, ranked by USDA R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	USDA R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Eastern Kentucky U.	372	4	0	0	4	0	0	0	0	0	0	0
Furman U.	372	4	0	0	4	0	0	0	0	0	0	0
U. North Carolina, Charlotte	372	4	0	0	0	0	0	0	0	0	4	0
U. Southern Maine	372	4	0	0	3	0	0	0	1	0	0	0
CUNY, Queens C.	376	3	0	0	3	0	0	0	0	0	0	0
Keck Graduate Institute	376	3 i	0 i	0 i	3 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Santa Clara U.	376	3	0	0	3	0	0	0	0	0	0	0
U. Akron	376	3	0	0	0	0	0	0	0	0	2	1
Biola U.	380	2 i	0 i	0 i	1 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i
Colorado C.	380	2	0	0	2	0	0	0	0	0	0	0
Lafayette C.	380	2	0	0	2	0	0	0	0	0	0	0
Lipscomb U.	380	2 i	0 i	0 i	2 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Mercyhurst U.	380	2 i	0 i	0 i	1 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i
CUNY, Medgar Evers C.	385	1	0	0	0	0	0	0	0	0	0	1
Pacific U.	385	1	0	0	1	0	0	0	0	0	0	0
U. Baltimore	385	1	0	0	0	0	0	0	1	0	0	0

i = imputed.

USDA = Department of Agriculture; nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $26 thousand in R&D expenditures financed by USDA in FY 2020.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
All institutions	-	3,209,721	112,791	579,813	605,333	37,161	89,355	70,896	256,359	62,654	842,665	552,694
Johns Hopkins U.[b]	1	182,983	26,771	1,642	13,850	15,830	2,952	0	667	8,708	110,354	2,209
U. Colorado Boulder	2	94,543	1,317	57,493	226	216	21,146	0	1,729	542	7,198	4,676
U. Maryland[c]	3	81,196	10,156	26,490	5,799	43	4,634	831	8,076	191	16,438	8,538
U. North Carolina, Chapel Hill	4	79,186	850	6,213	10,421	0	29	10,858	39,345	0	6,304	5,166
U. Washington, Seattle	5	71,768	407	34,719	20,126	199	464	456	1,146	0	8,990	5,261
Georgia Institute of Technology	6	68,938	8,470	1,424	1,499	0	3,768	585	2,458	0	47,917	2,817
Ohio State U.	7	58,608	190	524	13,345	0	174	455	2,880	13,027	18,698	9,315
U. Dayton	8	57,406	0	252	0	0	169	0	0	0	56,487	498
Texas A&M U., College Station and Health Science Center	9	56,383	876	7,772	14,811	0	419	318	1,352	89	16,776	13,970
Colorado State U., Fort Collins	10	47,790	1,031	24,149	10,085	81	537	0	813	22	6,728	4,344
U. Oklahoma, Norman and Health Science Center	11	47,071	555	27,883	558	0	5	327	10,978	0	3,367	3,398
U. Wisconsin-Madison	12	36,697	0	16,057	3,789	31	2,136	764	3,137	387	3,247	7,149
U. Florida	13	35,886	694	586	12,839	0	0	48	1,002	0	9,360	11,357
U. South Florida, Tampa	14	35,024	0	4,705	1,256	179	4	200	5,080	0	8,568	15,032
U. California, Davis	15	34,696	68	2,703	21,946	0	306	0	2,741	0	4,862	2,070
U. Michigan, Ann Arbor	16	34,599	605	5,130	9,579	0	25	548	5,388	1,803	10,692	829
U. California, San Diego	17	33,323	1,294	24,268	5,826	0	33	70	714	5	1,027	86
New Jersey Institute of Technology	18	32,948	78	0	0	0	29	0	0	0	30,975	1,866
Michigan State U.	19	31,677	541	408	7,239	0	0	412	17,645	61	2,686	2,685
Iowa State U.	20	30,080	0	868	2,825	4,940	158	640	74	0	17,770	2,805
U. Texas, Austin	21	29,994	506	3,580	655	4,428	565	178	930	0	6,248	12,904
Virginia Polytechnic Institute and State U.	22	29,429	43	165	9,820	351	311	1,690	943	0	15,630	476
U. Delaware	23	28,887	214	3,302	881	0	392	0	2,591	0	18,975	2,532
Clemson U.	24	28,767	257	0	7,636	213	1,653	170	3,367	0	11,444	4,027
Purdue U., West Lafayette	25	28,175	2,590	285	5,834	0	322	0	824	0	12,138	6,182
U. Hawaii, Manoa	26	27,965	82	17,489	5,231	0	0	10	448	572	4,045	88
U. Kansas	27	27,777	277	777	621	0	0	915	1,642	0	1,286	22,259
U. Miami	28	27,723	0	22,254	2,456	0	2,520	0	0	0	167	326
U. Illinois, Urbana-Champaign	29	27,185	484	827	10,964	0	20	636	804	619	11,342	1,489

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Mississippi State U.	30	27,157	43	13,369	4,023	0	0	10	5,903	11	2,784	1,014
Arizona State U.	31	27,032	185	437	2,273	0	0	1,207	5,042	4,481	5,126	8,281
Rutgers, State U. New Jersey, New Brunswick	32	26,736	0	5,621	7,418	776	0	0	625	0	9,429	2,867
U. California, Los Angeles	33	26,535	1	1,590	5,091	40	460	278	747	14,500	725	3,103
Utah State U.	34	26,441	136	0	5,272	0	75	136	119	0	20,577	126
Tufts U.	35	25,219	67	69	16,036	991	10	643	41	4,346	2,293	723
U. New Hampshire	36	24,495	0	13,165	2,932	49	124	182	1,002	0	3,046	3,995
North Carolina State U.	37	23,186	640	7,894	1,536	472	0	288	182	487	10,821	866
Oregon State U.	38	23,179	0	7,325	9,526	23	403	320	1,296	112	3,137	1,037
Florida International U.	39	23,106	824	5,726	1,353	0	1,733	3,192	1,210	3	3,814	5,251
Florida State U.	40	22,336	120	2,033	1,215	143	63	383	845	0	2,436	15,098
Washington State U.	41	22,099	13	1,213	3,526	0	565	349	862	0	2,610	12,961
U. Alaska, Fairbanks	42	21,809	684	13,365	3,660	60	0	0	189	1,430	2,347	74
Wichita State U.	43	20,757	0	11	146	0	0	179	17	0	19,602	802
U. Missouri, Columbia	44	20,619	0	0	3,593	166	74	0	188	0	2,044	14,554
U. Central Florida	45	20,261	1,282	0	279	0	1,007	1,083	805	33	2,071	13,701
U. California, Berkeley	46	19,499	0	108	7,377	0	5,073	220	1,324	525	3,878	994
Woods Hole Oceanographic Institution	47	19,482	0	16,088	0	0	0	0	0	0	3,394	0
U. Virginia, Charlottesville	48	19,253	1,853	470	670	275	107	314	569	49	2,549	12,397
U. Connecticut	49	19,030	329	3,716	2,468	1	0	3,777	344	0	7,432	963
U. Southern Mississippi	50	17,972	0	17,226	538	0	0	0	80	0	106	22
Massachusetts Institute of Technology	51	17,896	1,538	2,785	188	0	1,318	0	3,500	97	6,429	2,041
U. Rhode Island	52	16,882	0	12,722	806	0	779	0	105	284	1,412	774
William & Mary	53	16,757	19	8,048	215	0	22	5	4,825	0	0	3,623
U. Arizona	54	16,607	290	4,716	4,950	18	1,889	0	1,148	216	1,980	1,400
Pennsylvania State U., University Park and Hershey Medical Center	55	16,409	196	2,056	2,949	86	127	724	638	0	7,261	2,372
Duke U.	56	16,309	0	976	10,916	0	0	74	1,817	0	2,182	344
U. Southern California	57	16,007	633	2,999	1,969	0	0	1,237	3,981	0	1,617	3,571
George Mason U.	58	15,484	3,564	2,384	503	221	66	518	2,513	0	3,868	1,847
Cornell U.	59	15,400	457	882	9,477	97	17	977	1,009	0	1,833	651

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Vanderbilt U. and Vanderbilt U. Medical Center	60	15,211	0	0	1,143	0	456	152	2,090	0	1,920	9,450
Harvard U.	61	14,952	397	2,500	1,940	677	1,033	419	2,138	0	2,515	3,333
U. Louisiana, Lafayette	62	14,946	346	648	680	0	24	0	0	0	722	12,526
U. Nebraska, Lincoln	63	14,413	0	260	3,675	232	0	2,935	118	0	6,221	972
U. Minnesota, Twin Cities	64	13,977	7	252	3,155	0	167	4,160	245	0	3,678	2,313
Auburn U., Auburn	65	13,958	209	367	4,111	0	21	0	29	390	8,681	150
U. Pennsylvania	66	13,919	26	0	5,144	0	56	359	2,580	16	901	4,837
Virginia Commonwealth U.	67	13,836	1	78	3,558	3	0	1,045	0	0	510	8,641
U. Georgia	68	13,694	0	3,173	6,842	0	0	1,381	566	29	937	766
Carnegie Mellon U.	69	13,507	5,598	0	0	703	490	1,116	17	38	5,545	0
U. Oregon	70	13,204	232	1,915	157	0	14	1,742	271	0	0	8,873
U. Texas, Arlington	71	13,155	251	0	45	0	21	0	43	0	10,491	2,304
Northeastern U.	72	12,882	425	419	30	0	0	68	1,652	0	8,855	1,433
U. Iowa	73	12,704	0	7	4,200	0	46	149	1,188	0	5,988	1,126
Louisiana State U., Baton Rouge	74	12,650	136	5,358	2,378	17	75	90	337	3	3,811	445
Indiana U., Bloomington	75	12,439	3,133	347	642	0	519	248	5,123	0	286	2,141
Medical U. South Carolina	76	12,400	0	0	12,400	0	0	0	0	0	0	0
Texas State U.	77	12,291	38	779	565	0	0	0	1,411	0	196	9,302
U. Pittsburgh, Pittsburgh	78	12,289	42	123	8,723	0	0	13	224	400	1,195	1,569
Florida A&M U.	79	12,174	0	3,713	3,331	0	177	0	0	329	1,569	3,055
U. Alabama, Tuscaloosa	80	11,667	2,631	358	65	0	19	58	575	0	6,500	1,461
Kansas State U.	81	11,509	64	117	7,293	42	2	54	1,018	1	2,747	171
U. Illinois, Chicago	82	11,454	166	6	5,244	0	0	886	1,263	0	545	3,344
U. Baltimore	83	11,427	0	0	0	0	45	0	681	0	0	10,701
New York U.	84	11,426	133	0	960	303	0	45	2,114	0	3,393	4,478
Princeton U.	85	11,220	0	6,225	2,788	0	0	43	1,109	0	399	656
U. Massachusetts, Boston	86	11,117	0	396	103	0	1	819	1,171	0	35	8,592
SUNY, U. Buffalo	87	10,605	518	463	5,509	0	164	0	238	0	1,086	2,627
U. Tennessee, Knoxville[d]	88	10,409	117	475	4,723	0	170	0	954	592	3,214	164
U. California, Santa Cruz	89	10,223	0	4,592	5,022	0	55	0	87	0	314	153

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Denver and Anschutz Medical Campus	90	10,161	179	222	7,536	0	0	0	21	0	260	1,943
Yale U.	91	10,031	254	0	7,225	0	17	273	61	0	66	2,135
Montana State U., Bozeman	92	9,978	6	206	1,670	40	29	0	179	0	6,207	1,641
Stanford U.	93	9,906	241	533	1,274	0	1,496	150	2,263	0	3,302	647
U. Notre Dame	94	9,901	2,943	0	183	19	163	427	647	109	1,593	3,817
U. West Florida	95	9,666	0	322	61	0	0	0	0	0	0	9,283
U. Cincinnati	96	9,603	0	34	3,616	69	8	77	1,198	0	3,460	1,141
Northwestern U.	97	9,554	0	4	2,171	0	5,435	0	652	113	489	690
Columbia U. in the City of New York	98	9,407	459	3,673	3,247	0	0	132	619	0	473	804
U. Nevada, Reno	99	9,405	104	3,333	2,411	0	40	0	866	0	2,188	463
U. Mississippi	100	9,364	0	415	279	0	536	0	117	18	7,076	923
U. Maryland Center for Environmental Science	101	9,329	0	5,958	3,045	0	102	0	0	0	42	182
George Washington U.	102	9,110	179	0	1,139	0	181	1	5,047	0	285	2,278
Texas A&M U.-Corpus Christi	103	8,981	0	2,467	3,950	0	1,173	0	45	11	1,098	237
U. Massachusetts, Amherst	104	8,954	875	546	1,404	0	28	0	64	0	5,217	820
Boston U.	105	8,926	626	1,005	5,266	0	241	62	110	5	624	987
Georgetown U.	106	8,909	580	0	3,615	0	3,151	0	669	590	0	304
Georgia State U.	107	8,783	32	312	114	0	0	476	855	0	0	6,994
U. Maine	108	8,741	35	4,673	1,520	0	0	0	3	0	2,166	344
U. Kentucky	109	8,662	140	463	826	0	25	755	26	848	4,892	687
U. North Carolina, Greensboro	110	8,451	100	0	34	0	0	622	0	0	0	7,695
U. South Carolina, Columbia	111	8,450	40	1,974	941	0	0	509	1,006	0	1,491	2,489
Embry-Riddle Aeronautical U.	112	8,169	67	689	17	0	0	0	0	0	7,249	147
Tulane U.	113	7,993	0	388	4,719	0	211	683	1,992	0	0	0
U. California, Irvine	114	7,963	495	8	445	12	142	179	262	0	751	5,669
Eastern Virginia Medical School	115	7,731	0	0	7,731	0	0	0	0	0	0	0
U. Montana, Missoula	116	7,472	0	304	6,301	81	137	13	401	0	0	235
Portland State U.	117	7,454	54	621	901	0	0	758	734	0	201	4,185
American U.	118	7,255	0	61	51	0	100	0	4,471	483	0	2,089
U. Houston	119	7,152	689	727	23	329	0	3,761	74	109	393	1,047
U. Alaska, Anchorage	120	7,142	69	5,008	1,326	0	0	0	313	90	297	39

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California Institute of Technology	121	7,117	0	5,462	0	0	322	0	0	0	143	1,190
U. Alabama, Birmingham	122	6,762	0	0	4,791	0	227	260	88	0	259	1,137
Temple U.	123	6,746	55	21	404	0	0	86	519	148	560	4,953
U. Puerto Rico, Mayaguez	124	6,737	0	3,736	40	0	140	0	148	0	2,673	0
U. New Mexico	125	6,692	0	549	2,569	13	0	0	1,853	50	1,272	386
San Jose State U.	126	6,624	0	4,603	0	0	0	0	57	0	25	1,939
U. Wyoming	126	6,624	0	395	3,495	0	0	0	139	43	1,496	1,056
Western Michigan U. and Homer Stryker M.D. School of Medicine	128	6,525	0	221	281	0	90	0	0	0	526	5,407
U. Texas, San Antonio	129	6,481	1,053	14	79	0	81	2,145	607	108	971	1,423
U. Alabama, Huntsville	130	6,468	65	1,110	36	0	0	0	0	0	4,622	635
U. California, Riverside	131	6,343	535	175	407	0	1	0	206	1,497	1,766	1,756
CUNY, City C.	132	6,288	236	204	5	0	2	0	0	0	5,835	6
U. California, Santa Barbara	133	6,128	100	3,633	35	2	15	739	364	0	54	1,186
SUNY, U. Albany	134	5,987	466	2,340	414	0	685	0	1,918	0	1	163
Florida Atlantic U.	135	5,905	0	175	1,942	198	0	0	101	0	3,127	362
Emory U.	136	5,886	0	1	5,395	0	0	214	0	0	4	272
Oklahoma State U., Stillwater	137	5,815	0	5	2,410	0	121	15	117	0	2,915	232
U. Chicago	138	5,802	255	0	277	64	0	422	2,379	0	1,620	785
Drexel U.	139	5,757	385	0	2,571	0	22	403	25	0	1,813	538
West Virginia U.	140	5,643	121	249	974	3	1,016	0	512	3	1,623	1,142
U. Nevada, Las Vegas	141	5,614	0	0	3,509	0	0	0	79	12	1,746	268
U. California, San Francisco	142	5,570	0	0	5,570	0	0	0	0	0	0	0
U. Texas, El Paso	143	5,442	98	4	1,270	48	237	76	168	0	3,113	428
U. Memphis	144	5,286	466	1,687	133	0	91	29	516	0	1,125	1,239
SUNY, Stony Brook U.	145	5,144	201	3,058	859	122	198	0	17	0	575	114
North Dakota State U.	146	5,078	0	21	548	0	49	0	3,802	14	644	0
Missouri U. of Science and Technology	147	5,067	168	0	26	0	668	0	0	0	4,205	0
Brown U.	148	4,823	1,039	275	341	0	174	80	463	137	398	1,916
Teachers C., Columbia U.	149	4,804	154	0	1,498	0	0	402	2,750	0	0	0
SUNY, C. of Environmental Science and Forestry	150	4,547	23	27	4,265	0	89	0	0	52	0	91
California State U., Sacramento	151	4,540	0	711	280	0	0	0	5	19	3,138	387

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Arkansas, Fayetteville	152	4,511	166	285	1,286	0	0	79	393	0	1,371	931
Illinois State U.	153	4,424	0	16	0	0	77	0	0	0	0	4,331
U. South Florida, Saint Petersburg	154	4,329	0	0	6	0	0	0	0	0	0	4,323
U. Denver	155	4,220	0	42	0	0	0	56	1,340	0	242	2,540
Old Dominion U.	156	4,198	40	569	103	56	6	41	525	0	983	1,875
U. South Alabama	157	4,151	2,609	763	16	0	43	39	0	0	590	91
U. Idaho	158	4,140	0	555	1,961	0	0	103	193	0	1,171	157
U. Maryland, Eastern Shore	159	4,106	0	2,142	0	0	1,236	0	695	0	33	0
U. North Carolina, Charlotte	160	4,061	0	240	9	0	35	0	357	0	2,739	681
U. Utah	161	4,030	197	800	533	0	22	161	331	118	1,608	260
California State U., San Marcos	162	4,025	0	0	164	0	44	0	84	113	2,408	1,212
Syracuse U.	163	3,933	217	0	322	0	230	0	1,077	0	171	1,916
Michigan Technological U.	164	3,916	0	1,814	121	0	0	33	101	0	1,847	0
Florida Institute of Technology	165	3,911	2,550	261	14	0	343	18	0	0	202	523
Stevens Institute of Technology	166	3,890	0	234	0	0	0	0	0	0	3,524	132
Northern Arizona U.	167	3,880	52	1,652	1,794	0	179	0	135	0	68	0
Colorado School of Mines	168	3,800	107	502	287	0	1	0	206	0	2,666	31
Texas Tech U.	169	3,677	0	947	681	0	0	75	65	0	1,191	718
Ohio U.	170	3,649	65	35	194	0	74	817	0	0	2,464	0
U. North Carolina, Wilmington	171	3,640	0	397	2,147	0	0	0	260	0	162	674
Boston C.	172	3,628	0	243	77	0	0	0	2,776	0	0	532
Wayne State U.	173	3,609	6	0	2,105	0	0	0	249	0	594	655
East Carolina U.	174	3,536	0	329	370	0	0	451	306	0	59	2,021
U. Texas Health Science Center, San Antonio	175	3,474	0	0	3,474	0	0	0	0	0	0	0
Indiana U.-Purdue U., Indianapolis	176	3,366	34	22	56	0	362	97	1,462	0	259	1,074
South Dakota State U.	177	3,293	0	114	1,695	161	29	0	101	0	1,176	17
New Mexico State U.	178	3,242	3	685	1,074	29	0	0	180	10	1,146	115
Sam Houston State U.	179	3,153	0	0	24	0	0	57	752	0	0	2,320
Medical C. Wisconsin	180	3,116	0	0	1,826	0	0	0	0	0	1,290	0
Florida Gulf Coast U.	181	3,034	0	308	42	0	0	0	38	0	0	2,646
Boise State U.	182	2,994	0	257	542	0	0	0	1,388	0	107	700

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maryland, Baltimore County	183	2,945	316	1,255	209	0	360	46	203	0	176	380
Central Michigan U.	184	2,927	0	55	2,828	0	0	0	44	0	0	0
U. Vermont	185	2,877	99	1,124	496	0	0	8	35	0	810	305
U. Massachusetts, Lowell	186	2,861	80	0	129	0	136	0	1,191	0	753	572
Southern Illinois U., Carbondale	187	2,836	0	12	2,579	0	0	0	94	143	8	0
CUNY, John Jay C. of Criminal Justice	188	2,768	0	0	0	0	122	0	0	0	0	2,646
U. Massachusetts, Dartmouth	189	2,651	0	2,077	27	0	0	0	0	0	460	87
Nova Southeastern U.	190	2,538	0	2,489	0	0	0	49	0	0	0	0
Rice U.	191	2,518	34	115	20	0	0	103	887	67	1,292	0
California State U., San Bernardino	192	2,499	126	6	0	340	0	0	84	0	0	1,943
U. Louisville	193	2,446	0	0	455	0	6	0	494	0	436	1,055
California State U., Bakersfield	194	2,418	0	15	19	1,132	0	0	1	0	1,009	242
Lehigh U.	195	2,333	36	240	399	0	0	0	0	0	676	982
Jackson State U.	196	2,318	129	0	661	12	687	0	3	37	789	0
Wake Forest U.	197	2,305	0	0	2,275	0	0	0	0	0	0	30
Texas A&M U.-Kingsville	198	2,294	0	114	259	0	0	0	0	0	589	1,332
Rensselaer Polytechnic Institute	199	2,282	130	0	102	93	0	0	0	0	1,080	877
Worcester Polytechnic Institute	200	2,276	1,033	0	0	0	111	0	628	0	448	56
Seton Hall U.	201	2,186	0	0	0	0	0	0	0	0	0	2,186
Northern Illinois U.	202	2,164	0	15	49	0	213	452	0	0	40	1,395
Naval Postgraduate School	203	2,070	0	52	0	0	1,289	0	502	227	0	0
U. New Orleans	204	2,067	118	896	0	0	33	0	664	230	0	126
Desert Research Institute	205	2,030	0	1,987	43	0	0	0	0	0	0	0
Rochester Institute of Technology	206	2,000	229	0	17	0	827	0	432	0	163	332
Rhode Island C.	207	1,944	0	0	0	0	0	0	0	0	0	1,944
U. Wisconsin-Milwaukee	208	1,940	93	715	271	193	2	9	290	9	29	329
U. Toledo	209	1,930	0	1,503	46	0	0	0	212	0	150	19
North Carolina Agricultural and Technical State U.	210	1,891	79	0	53	0	0	0	0	0	138	1,621
Morgan State U.	211	1,859	10	0	25	16	0	0	1	0	1,724	83
St. Edward's U.	212	1,832	0	0	0	0	0	0	0	0	0	1,832
Washington U., Saint Louis	213	1,766	0	3	1,229	0	171	5	65	0	66	227

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Brigham Young U., Provo	214	1,746	0	1	624	0	6	0	490	0	219	406
New Mexico Institute of Mining and Technology	215	1,715	0	759	34	0	0	0	0	0	922	0
San Diego State U.	216	1,706	100	370	308	0	0	0	35	0	138	755
U. Hawaii, system office	217	1,694	1,694	0	0	0	0	0	0	0	0	0
Southern Methodist U.	218	1,688	29	20	0	0	0	0	48	0	699	892
U. Washington, Tacoma	219	1,657	3	1,645	0	0	0	0	0	0	0	9
U. Minnesota, Duluth	220	1,652	0	2	1,609	0	0	0	0	0	41	0
Kent State U.	221	1,623	0	202	59	0	0	118	237	370	0	637
U. Texas Health Science Center, Houston	222	1,605	0	0	1,605	0	0	0	0	0	0	0
U. Wisconsin-Stevens Point	223	1,603	0	0	1,603	0	0	0	0	0	0	0
Salisbury U.	224	1,573	0	22	22	0	0	0	3	0	0	1,526
U. North Florida	225	1,564	0	0	42	0	23	0	102	0	175	1,222
U. North Texas, Health Science Center	226	1,526	0	0	1,110	0	0	0	416	0	0	0
Wright State U.	227	1,488	83	71	322	60	3	124	0	0	822	3
Clarkson U.	228	1,461	0	0	0	0	55	0	0	0	1,406	0
San Francisco State U.	228	1,461 i	0 i	717 i	220 i	0 i	0 i	0 i	0 i	41 i	0 i	483 i
California Polytechnic State U., San Luis Obispo	230	1,409	0	563	60	528	37	0	0	0	147	74
U. of the Virgin Islands	231	1,408	0	181	1,133	0	0	0	85	0	0	9
Icahn School of Medicine at Mount Sinai	232	1,402	0	0	1,402	0	0	0	0	0	0	0
Miami U.	233	1,392	22	10	0	0	5	158	228	0	9	960
U. Nebraska, Omaha	234	1,383	50	0	350	0	0	13	181	50	377	362
U. Massachusetts, Medical School	235	1,379	0	0	1,379	0	0	0	0	0	0	0
California State Polytechnic U., Pomona	236	1,368	0	30	57	102	0	0	0	0	986	193
U. Puerto Rico, Rio Piedras	237	1,367	0	1,225	0	0	0	0	48	66	0	28
Troy U.	238	1,355	0	47	41	0	1,216	0	0	0	0	51
U. Missouri, Saint Louis	239	1,333	0	0	936	0	0	0	397	0	0	0
U. Wisconsin-Superior	239	1,333	0	0	1,333	0	0	0	0	0	0	0
U. Hawaii, Hilo	241	1,325	0	661	577	0	0	0	3	84	0	0
U. Guam	242	1,323	0	868	455	0	0	0	0	0	0	0
Bowling Green State U.	243	1,316	0	272	67	0	90	55	235	0	0	597
Rowan U.	244	1,298	19	54	25	0	0	0	149	0	776	275

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Saint Louis U.	245	1,288	40	212	650	59	0	0	0	0	192	135
Dakota State U.	246	1,272	1,272	0	0	0	0	0	0	0	0	0
California State U., Long Beach	247	1,261	0	37	170	423	0	0	70	0	561	0
Augusta U.	248	1,257	0	0	1,257	0	0	0	0	0	0	0
Oregon Health and Science U.	249	1,252	0	0	1,252	0	0	0	0	0	0	0
U. North Dakota	250	1,244	1	691	34	0	0	0	0	0	439	79
Loyola U., Chicago	251	1,213	0	0	896	0	0	40	168	0	0	109
U. Nebraska, Medical Center	252	1,203	0	0	1,203	0	0	0	0	0	0	0
Jacksonville State U.	253	1,186	0	0	0	0	0	0	0	0	0	1,186
Johnson C. Smith U.	254	1,184	0	0	166	0	0	0	0	0	0	1,018
Howard U.	255	1,179	0	225	304	0	133	365	0	0	152	0
Air Force Institute of Technology	256	1,163	0	0	0	0	250	0	0	0	913	0
U. Puerto Rico, Medical Sciences Campus	257	1,158	0	0	1,158	0	0	0	0	0	0	0
California State U., Los Angeles	258	1,150	0	0	436	0	0	0	39	0	385	290
Winston-Salem State U.	259	1,120	0	0	0	0	0	0	0	0	0	1,120
U.S. Military Academy	260	1,117	0	0	0	0	0	8	0	1,109	0	0
Dartmouth C. and Dartmouth Hitchcock Medical Center	261	1,104	0	25	528	0	0	0	173	0	91	287
Duquesne U.	262	1,093	0	290	473	0	0	0	0	0	0	330
Colorado State U., Pueblo	263	1,081	0	0	1,081	0	0	0	0	0	0	0
North Carolina Central U.	264	1,069	0	0	15	0	257	0	126	0	0	671
Case Western Reserve U.	265	1,052	0	0	34	0	0	95	815	0	108	0
Lamar U.	266	1,040	0	0	103	0	0	0	0	0	355	582
U. North Texas, Denton	267	1,016	32	0	151	0	25	22	0	0	68	718
CUNY, Graduate School of Public Health and Health Policy	268	1,010	0	0	1,010	0	0	0	0	0	0	0
Tennessee Technological U.	269	983	0	0	696	0	0	0	0	0	281	6
Humboldt State U.	270	979	0	200	602	0	0	0	24	0	153	0
U. Houston-Downtown	271	972	0	0	0	0	0	0	0	3	0	969
SUNY, Binghamton U.	272	965	138	0	0	0	0	0	718	0	0	109
Catholic U. of America	273	957	0	0	432	0	13	0	98	0	247	167
Mills C.	274	951	0	0	0	0	0	0	0	0	0	951
U. Texas M. D. Anderson Cancer Center	275	934	0	0	701	0	233	0	0	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Tennessee State U.	276	923	0	0	202	0	32	0	66	0	76	547
U. Illinois, Springfield	277	918	0	0	0	0	0	0	918	0	0	0
William Paterson U.	278	916	0	0	22	0	0	70	0	0	0	824
West Virginia State U.	279	898	0	0	674	0	224	0	0	0	0	0
U. Texas Rio Grande Valley	280	891	0	669	94	0	0	0	0	8	84	36
U. Northern Colorado	281	867	0	0	185	0	0	0	64	0	0	618
California State U., East Bay	282	844	0	41	117	0	0	0	171	0	41	474
California State U., Northridge	283	838	0	10	0	0	0	61	56	62	24	625
Texas Woman's U.	284	830	0	0	2	0	0	0	10	0	0	818
U. Missouri, Kansas City	285	827	0	0	103	0	0	0	25	0	300	399
Scripps Research Institute	286	796	0	0	796	0	0	0	0	0	0	0
Arkansas State U., Jonesboro	287	789	0	0	619	0	26	0	0	0	144	0
CUNY, Brooklyn C.	288	788	0	0	649	0	0	0	0	0	0	139
Stockton U.	289	782	0	573	0	0	0	0	0	0	0	209
SUNY, Buffalo State	290	760	0	611	149	0	0	0	0	0	0	0
U. Texas Southwestern Medical Center	291	742	0	0	742	0	0	0	0	0	0	0
U. North Carolina, Asheville	292	720	0	19	85	0	351	0	0	0	0	265
Winthrop U.	293	712	0	0	0	0	0	0	0	0	0	712
Louisiana Tech U.	294	710	0	0	26	43	2	0	420	0	61	158
Eastern Washington U.	295	705	0	58	24	0	0	0	562	0	0	61
Elizabeth City State U.	296	676	66	176	0	0	0	0	0	0	0	434
Erikson Institute	297	671	0	0	0	0	0	0	0	0	0	671
Central Washington U.	298	670	0	662	0	0	8	0	0	0	0	0
U. Akron	298	670	0	29	151	0	0	0	0	0	490	0
Central Connecticut State U.	300	658	0	0	0	0	0	0	206	0	69	383
Ball State U.	301	655	0	0	335	0	0	0	250	0	0	70
Indiana State U.	302	645	0	4	327	0	0	0	0	0	0	314
Skidmore C.	303	644	0	0	644	0	0	0	0	0	0	0
Western Illinois U.	304	630	0	9	601	0	0	0	0	0	0	20
Saginaw Valley State U.	305	620	0	0	0	587	21	0	12	0	0	0
U. Arkansas, Little Rock	306	616	0	0	9	0	0	0	2	0	0	605
La Sierra U.	307	614	0	0	0	0	0	0	0	0	0	614

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
SUNY, Polytechnic Institute	308	612	0	0	0	0	0	0	0	0	607	5
South Dakota School of Mines and Technology	309	610	0	0	0	0	45	0	0	0	565	0
Northwestern State U. Louisiana	310	597	0	0	0	0	0	0	597	0	0	0
Southern Illinois U., Edwardsville	311	590	0	389	0	0	0	0	0	0	139	62
Bowie State U.	312	567	0	0	308	0	0	0	0	0	0	259
U. Tulsa	312	567	121	42	42	0	0	7	16	0	197	142
U. Arkansas for Medical Sciences	314	566	0	0	566	0	0	0	0	0	0	0
Illinois Institute of Technology	315	564	0	9	0	0	20	0	0	0	443	92
Coastal Carolina U.	316	560	0	560	0	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Newark	317	554	0	0	178	0	0	32	293	0	0	51
Hobart and William Smith Colleges	318	551	0	13	538	0	0	0	0	0	0	0
C. Charleston	319	543	0	84	174	0	0	0	0	0	0	285
Montana Technological U.	320	540	0	540	0	0	0	0	0	0	0	0
Alabama State U.	321	533	0	0	0	0	0	0	0	0	533	0
Texas A&M International U.	322	530	0	0	123	0	0	0	0	405	0	2
U. Texas Medical Branch	323	516	0	0	516	0	0	0	0	0	0	0
Fordham U.	324	508	0	0	9	0	0	4	0	0	0	495
Wesleyan U.	325	506	0	32	0	0	148	0	0	0	0	326
Baylor C. of Medicine	326	502	0	0	502	0	0	0	0	0	0	0
James Madison U.	327	501	0	334	68	0	36	0	0	0	0	63
Delaware State U.	328	491 i	0 i	161 i	111 i	0 i	0 i	0 i	2 i	0 i	0 i	217 i
Alabama A&M U.	329	479 i	12 i	0 i	117 i	3 i	16 i	14 i	51 i	0 i	164 i	102 i
Towson U.	330	476	178	104	27	0	5	0	162	0	0	0
Marshall U.	331	465	0	184	52	0	0	0	0	0	221	8
Missouri State U.	332	460	0	7	363	0	0	0	12	0	0	78
CUNY, Hunter C.	333	458	0	172	0	0	0	32	12	0	0	242
U. Alaska, Southeast	334	457	0	94	259	0	0	0	0	104	0	0
U. Washington, Bothell	335	456	0	160	0	0	0	0	0	37	0	259
U. South Carolina, Aiken	336	453	0	79	374	0	0	0	0	0	0	0
Western Carolina U.	336	453	0	150	63	0	0	0	40	0	200	0
California State U., Chico	338	451	0	4	0	0	6	0	100	0	8	333

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Grambling State U.	339	428	0	0	0	0	0	0	0	0	0	428
U. of Mary Washington	340	426	0	6	0	0	0	0	3	0	0	417
Western Washington U.	341	421	0	188	34	0	0	0	71	0	0	128
SUNY, C. Brockport	342	420	0	261	155	0	0	0	4	0	0	0
Grand Valley State U.	343	418	0	253	59	0	0	0	58	0	0	48
Cleveland State U.	344	415	0	0	3	0	0	0	126	0	146	140
SUNY, C. Plattsburgh	345	411	0	391	0	0	0	0	0	0	0	20
Roger Williams U.	346	410	0	129	0	0	0	198	0	0	0	83
Wellesley C.	347	403	0	0	0	0	0	0	0	0	0	403
California State U., Monterey Bay	348	401	0	357	44	0	0	0	0	0	0	0
Liberty U.	349	400	0	0	0	0	0	0	0	0	0	400
U. Wisconsin-La Crosse	350	399	0	0	336	0	0	0	55	0	0	8
Occidental C.	351	395	0	395	0	0	0	0	0	0	0	0
U. New Haven	351	395	0	7	0	0	133	22	233	0	0	0
U. Texas, Dallas	353	392	47	0	0	0	18	20	126	0	163	18
Sul Ross State U.	354	391	0	0	373	0	0	0	18	0	0	0
Marquette U.	355	387	22	0	0	24	0	0	0	0	341	0
U. San Diego	356	386	0	0	0	0	0	0	61	0	213	112
Southeastern Louisiana U.	357	385	0	0	161	0	0	0	224	0	0	0
Brandeis U.	358	377	0	0	0	26	0	0	317	0	0	34
U. Ana G. Mendez, Gurabo	359	365	0	0	0	0	0	0	0	0	365	0
Georgia Southern U.	360	360	0	94	36	0	209	0	3	0	0	18
U. Tennessee, Health Science Center	361	357	0	0	357	0	0	0	0	0	0	0
Idaho State U.	362	356	24	102	0	0	64	0	70	0	0	96
California State U., Fresno	363	351	6	0	41	0	0	0	275	0	24	5
Texas A&M U.-Commerce	364	350	24	0	0	0	0	164	0	0	0	162
East Tennessee State U.	365	349	0	0	270	0	42	0	0	0	37	0
California State U., Stanislaus	366	348	0	0	348	0	0	0	0	0	0	0
U. South Dakota	367	345	0	0	134	0	129	0	0	0	46	36
U. Houston-Clear Lake	368	343	0	0	0	0	313	0	30	0	0	0
U. Texas of the Permian Basin	369	341	0	0	0	0	0	0	320	0	0	21
Claremont Graduate U.	370	324	95	0	0	70	0	0	153	0	0	6

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Central Oklahoma	371	315 i	0 i	0 i	52 i	0 i	85 i	0 i	0 i	0 i	0 i	178 i
U. Ana G. Mendez, Carolina	372	314	0	0	0	0	0	0	0	0	314	0
Tarleton State U.	373	313	0	13	125	0	0	0	0	175	0	0
Tuskegee U.	374	312	21	0	15	100	17	0	0	0	159	0
Smith C.	375	309	0	0	8	0	0	14	0	0	120	167
Western Kentucky U.	375	309	0	198	9	0	7	0	11	0	0	84
Texas Christian U.	377	308	0	0	0	0	0	0	8	0	0	300
Fort Hays State U.	378	305	0	251	54	0	0	0	0	0	0	0
Rutgers, State U. New Jersey, Camden	379	302	242	0	0	0	0	0	60	0	0	0
Appalachian State U.	380	300	0	19	174	0	0	13	0	0	0	94
Fisk U.	381	299	0	0	299	0	0	0	0	0	0	0
Creighton U.	382	298 i	30 i	98 i	71 i	11 i	8 i	7 i	31 i	0 i	0 i	42 i
West Texas A&M U.	383	297	0	0	8	0	0	0	0	0	0	289
Savannah State U.	384	293	0	293	0	0	0	0	0	0	0	0
Northern Kentucky U.	385	288	0	0	255	0	0	0	0	0	0	33
U. Tennessee, Chattanooga	386	286	25	0	5	0	0	0	16	15	225	0
Pennsylvania State U., Behrend	387	284	12	102	14	13	27	0	4	0	112	0
U. California, Merced	388	283	0	76	7	0	4	0	0	0	188	8
Albert Einstein C. of Medicine	389	282	0	0	282	0	0	0	0	0	0	0
Saint Joseph's U.	389	282	110	0	0	0	0	0	143	0	0	29
Franklin and Marshall C.	391	279	0	0	0	0	0	0	279	0	0	0
SUNY, Oswego	392	268	0	36	50	0	182	0	0	0	0	0
Albany State U.	393	258	0	4	0	0	54	0	0	0	0	200
Austin Peay State U.	394	257	0	0	257	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, New Orleans	395	256	0	0	256	0	0	0	0	0	0	0
Benedict C.	396	254	20	21	21	21	123	0	0	0	46	2
Clark U.	396	254	0	0	0	0	0	84	170	0	0	0
Kean U.	398	253	0	0	0	0	0	0	0	0	0	253
Meharry Medical C.	399	250	0	0	250	0	0	0	0	0	0	0
Dine C.	400	249	0	0	249	0	0	0	0	0	0	0
U.S. Air Force Academy	401	246	0	0	0	0	0	0	0	0	0	246

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Calvin U.	402	243 i	0 i	0 i	219 i	0 i	0 i	0 i	0 i	0 i	0 i	24 i
Uniformed Services U. of the Health Sciences	403	242	0	0	242	0	0	0	0	0	0	0
U. Massachusetts, central office	404	236	0	0	230	0	0	0	6	0	0	0
U. Michigan, Dearborn	405	234	0	0	0	0	0	0	0	144	90	0
Reed C.	406	232	0	0	40	0	21	0	0	0	0	171
Chapman U.	407	230	0	0	100	0	0	0	0	0	0	130
Midwestern U.	408	228	0	0	228	0	0	0	0	0	0	0
Mount Holyoke C.	409	227	0	0	0	0	0	174	53	0	0	0
Thomas Jefferson U.	410	226	0	0	203	0	0	0	0	0	0	23
U. Oklahoma, Tulsa	411	225	0	0	0	0	0	0	0	0	184	41
Virginia State U.	411	225	0	0	225	0	0	0	0	0	0	0
U. Louisiana, Monroe	413	224	0	0	81	0	0	0	143	0	0	0
Southern U. and A&M C., Baton Rouge	414	223	0	0	0	0	0	0	216	0	7	0
Montclair State U.	415	217	0	81	61	0	0	0	0	0	0	75
Kennesaw State U.	416	213	0	0	0	0	0	11	0	0	56	146
U. Nebraska, Kearney	417	212	0	0	212	0	0	0	0	0	0	0
Cold Spring Harbor Laboratory	418	210	0	0	63	0	0	0	0	0	0	147
Fayetteville State U.	419	209	0	0	0	0	0	0	0	0	0	209
Youngstown State U.	420	206	0	0	0	0	0	12	0	0	76	118
Harvey Mudd C.	421	201	0	0	186	0	0	0	0	0	15	0
Rosalind Franklin U. of Medicine and Science	422	197	0	0	197	0	0	0	0	0	0	0
Dillard U.	423	185	0	0	149	0	0	0	0	0	0	36
Stonehill C.	424	180	0	180	0	0	0	0	0	0	0	0
Villanova U.	424	180	0	111	0	0	0	0	0	0	69	0
Stephen F. Austin State U.	426	171	0	1	101	0	0	0	64	0	0	5
SUNY, Upstate Medical U.	427	168	0	0	168	0	0	0	0	0	0	0
Tennessee State U.	428	166	0	0	28	104	0	0	6	0	24	4
Rockefeller U.	429	165	0	0	165	0	0	0	0	0	0	0
Northeast Ohio Medical U.	430	161	0	0	161	0	0	0	0	0	0	0
DePaul U.	431	160	0	0	12	0	0	68	0	0	0	80
Des Moines U.	432	159	0	0	0	0	0	0	159	0	0	0

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
New Jersey City U.	432	159	24	0	57	42	18	12	0	0	0	6
Oregon Institute of Technology	434	158	0	0	67	0	0	0	0	0	91	0
Davidson C.	435	157	0	0	0	0	0	0	0	0	0	157
Baylor U.	436	156	0	0	44	0	0	0	0	0	73	39
Pittsburg State U.	437	155	0	0	56	0	0	0	99	0	0	0
Morehouse C.	438	151	0	0	0	0	0	0	0	12	0	139
Oklahoma State U., Center for Health Sciences	438	151	0	0	135	0	0	0	0	0	0	16
Kettering U.	440	149	0	0	4	0	0	0	0	0	0	145
Hawaii Pacific U.	441	145	0	145	0	0	0	0	0	0	0	0
St. Cloud State U.	442	138	0	0	126	0	0	0	12	0	0	0
Prairie View A&M U.	443	137	101	0	0	0	0	0	0	0	36	0
Dickinson C.	444	136	0	0	68	0	0	0	0	0	0	68
U. Michigan, Flint	445	134	0	0	0	0	0	0	0	102	0	32
U. Northern Iowa	446	133	0	0	26	0	0	0	18	0	0	89
Christopher Newport U.	447	131	0	0	81	0	0	37	13	0	0	0
SUNY, Downstate Medical Center	448	130	0	0	130	0	0	0	0	0	0	0
U. Puerto Rico, Humacao	449	127	0	0	26	0	0	101	0	0	0	0
U. Rochester	450	122	62	0	1	0	0	59	0	0	0	0
Minnesota State U., Mankato	451	120	0	0	0	0	0	0	1	0	119	0
Bucknell U.	452	118 i	0 i	0 i	22 i	0 i	0 i	0 i	2 i	0 i	60 i	34 i
U. New England	453	117	0	89	28	0	0	0	0	0	0	0
Monmouth U.	454	110	0	109	0	0	0	0	1	0	0	0
U. Central Arkansas	454	110	0	0	102	0	0	0	0	0	0	8
Heidelberg U.	456	108	0	108	0	0	0	0	0	0	0	0
Loyola Marymount U.	457	107	0	0	0	0	0	0	0	0	0	107
Weber State U.	457	107	0	0	0	0	0	0	0	0	0	107
Bradley U.	459	104	0	0	0	0	0	0	0	0	104	0
Pepperdine U.	459	104	0	0	0	0	0	0	0	0	0	104
South Carolina State U.	459	104 i	0 i	0 i	0 i	0 i	104 i	0 i	0 i	0 i	0 i	0 i
Eastern Michigan U.	462	102	0	0	0	0	0	0	0	0	102	0
Willamette U.	463	101	0	0	0	0	0	44	0	0	0	57

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Indiana U. Pennsylvania	464	100	0	0	70	0	4	0	4	0	0	22
Rhode Island School of Design	465	97 i	1 i	0 i	76 i	0 i	0 i	0 i	5 i	0 i	0 i	15 i
Albion C.	466	92	0	0	0	0	92	0	0	0	0	0
California State U., Dominguez Hills	466	92	92	0	0	0	0	0	0	0	0	0
U. Southern Maine	466	92	0	0	1	0	0	0	0	0	0	91
Hamilton C.	469	89	0	6	0	0	0	0	0	0	0	83
California State U., Fullerton	470	87	0	0	76	0	0	0	0	0	0	11
Black Hills State U.	471	84	0	0	31	0	0	0	0	0	0	53
Fort Valley State U.	471	84	0	0	0	0	0	0	0	0	84	0
U. Wisconsin-Oshkosh	473	83 i	3 i	11 i	17 i	1 i	3 i	3 i	10 i	0 i	12 i	23 i
CUNY, Baruch C.	474	81	46	0	0	0	0	0	35	0	0	0
Purdue U., Northwest	475	80	0	0	40	0	0	0	4	0	14	22
Bates C.	476	79	0	0	0	0	0	71	8	0	0	0
C. New Jersey	477	78	0	0	18	0	0	0	0	0	0	60
St. Bonaventure U.	477	78	0	0	0	0	0	0	0	0	0	78
Carleton C.	479	76	0	0	0	0	0	0	76	0	0	0
Bowdoin C.	480	73	0	38	33	0	2	0	0	0	0	0
U. Wisconsin-Green Bay	481	69 i	2 i	8 i	17 i	1 i	3 i	2 i	7 i	0 i	13 i	16 i
California Lutheran U.	482	68	0	0	0	0	0	0	0	0	0	68
CUNY, C. Staten Island	483	66	54	0	0	0	0	0	0	0	12	0
Eastern Kentucky U.	484	64	0	1	63	0	0	0	0	0	0	0
New School	484	64	0	0	0	0	0	0	0	0	0	64
Swarthmore C.	484	64	0	0	0	0	0	64	0	0	0	0
Connecticut C.	487	63	0	0	0	0	0	0	63	0	0	0
Colgate U.	488	60	0	0	0	0	0	0	0	0	0	60
Fort Lewis C.	489	57	0	0	2	0	0	0	42	0	13	0
Hope C.	489	57	0	0	0	0	28	0	0	0	0	29
CUNY, Advanced Science Research Center	491	56	0	56	0	0	0	0	0	0	0	0
Alfred U.	492	53	0	1	52	0	0	0	0	0	0	0
Claremont McKenna C.	493	51	0	21	0	0	0	0	0	0	0	30
Oakland U.	494	48	0	0	38	0	0	0	0	0	0	10

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Puerto Rico, Cayey	494	48	0	0	0	0	0	0	48	0	0	0
Southern Connecticut State U.	496	47	0	1	0	0	0	0	0	0	0	46
U. Wisconsin-River Falls	497	46	0	0	46	0	0	0	0	0	0	0
Gettysburg C.	498	45	0	0	0	0	0	0	45	0	0	0
U. Wisconsin-Platteville	499	44 i	0 i	12 i	13 i	1 i	3 i	0 i	1 i	0 i	0 i	14 i
Murray State U.	500	43	0	19	24	0	0	0	0	0	0	0
U. Richmond	500	43	0	3	0	0	0	0	0	0	0	40
Santa Clara U.	502	41	0	0	0	0	0	0	7	0	34	0
U. of the District of Columbia	502	41	0	41	0	0	0	0	0	0	0	0
Loma Linda U.	504	39 i	0 i	0 i	39 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Texas Tech U., Health Sciences Center	505	38	0	0	0	0	0	0	0	0	0	38
St. Olaf C.	506	37	11	0	4	0	0	9	10	0	0	3
Citadel Military C. South Carolina	507	36	0	0	0	0	0	19	0	0	13	4
Pacific U.	507	36	0	0	10	0	0	0	0	0	0	26
CUNY, Queens C.	509	35	0	0	0	0	0	0	6	0	0	29
Emerson C.	509	35	0	0	0	0	0	0	35	0	0	0
Franklin W. Olin C. of Engineering	509	35	0	0	0	0	0	0	0	0	32	3
Northern Michigan U.	509	35	0	7	0	0	0	0	0	0	0	28
Langston U.	513	34	0	0	0	0	16	0	0	0	0	18
New York Institute of Technology	514	33	0	0	0	0	0	0	0	0	0	33
Purdue U., Fort Wayne	515	32	0	0	4	0	0	0	0	0	0	28
West Chester U. Pennsylvania	515	32	0	0	0	0	0	32	0	0	0	0
Keck Graduate Institute	517	31 i	5 i	0 i	10 i	1 i	0 i	0 i	0 i	0 i	6 i	9 i
Merrimack C.	518	28	0	0	0	0	0	0	0	28	0	0
Suffolk U.	518	28	0	0	0	0	0	0	0	28	0	0
Norfolk State U.	520	27	0	0	0	0	0	0	0	0	0	27
Bryn Mawr C.	521	26	0	0	0	0	0	0	0	0	0	26
Gallaudet U.	522	25	0	4	0	0	0	0	0	0	0	21
U. Colorado Colorado Springs	522	25	0	25	0	0	0	0	0	0	0	0
Niagara U.	524	24	0	0	0	0	0	0	18	0	0	6
Pennsylvania State U., Harrisburg	524	24	0	0	0	0	0	0	7	0	4	13
Salish Kootenai C.	524	24	0	0	0	0	0	0	0	0	0	24

TABLE 65

Federally financed higher education R&D expenditures, financed by all other federal agencies, ranked by all R&D expenditures, by R&D field: FY 2020

(Dollars in thousands)

Institution	Rank	Other agency R&D expenditures[a]	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Biola U.	527	23 i	2 i	0 i	5 i	1 i	1 i	0 i	2 i	0 i	9 i	3 i
CUNY, Lehman C.	527	23	0	0	0	0	0	0	0	0	0	23
Marshall B. Ketchum U.	527	23 i	0 i	0 i	23 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Mercyhurst U.	527	23 i	3 i	3 i	6 i	1 i	2 i	1 i	3 i	0 i	0 i	4 i
Hofstra U.	531	19	0	2	6	0	0	0	0	0	0	11
Lawrence Technological U.	531	19	0	0	0	0	0	0	0	0	15	4
Lipscomb U.	533	16 i	2 i	0 i	3 i	1 i	0 i	0 i	1 i	0 i	7 i	2 i
Northwest Indian C.	534	14 i	0 i	14 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
New York Medical C.	535	13	0	0	13	0	0	0	0	0	0	0
U. Detroit Mercy	535	13	0	0	13	0	0	0	0	0	0	0
U. of the Pacific	535	13	0	0	0	0	0	0	0	0	0	13
Middlebury C.	538	12	0	0	0	0	12	0	0	0	0	0
Sonoma State U.	538	12	0	0	12	0	0	0	0	0	0	0
U. Arkansas, Pine Bluff	540	10	0	0	0	0	10	0	0	0	0	0
U. South Florida, Sarasota-Manatee	540	10	0	0	0	0	0	0	10	0	0	0
Xavier U. Louisiana	540	10	0	0	4	0	6	0	0	0	0	0
Lafayette C.	543	9	0	0	0	0	0	0	0	0	0	9
U. of St. Thomas (MN)	544	8	0	0	3	0	5	0	0	0	0	0
California State U., Channel Islands	545	7	0	0	7	0	0	0	0	0	0	0
U. Hartford	546	6	0	0	0	0	0	0	0	0	0	6
C. Wooster	547	5	0	0	0	0	5	0	0	0	0	0
Manhattan C.	547	5	0	0	0	0	0	0	0	0	5	0
Midwestern State U.	549	4	0	4	0	0	0	0	0	0	0	0
U. Puget Sound	549	4	0	0	0	0	0	0	0	0	0	4
Elon U.	551	3	0	0	0	0	0	0	0	0	3	0
U. Texas, Tyler	551	3	0	0	0	0	0	0	0	0	3	0
Colorado C.	553	2	0	0	0	0	0	0	0	0	0	2
CUNY, Medgar Evers C.	554	1	0	1	0	0	0	0	0	0	0	0
Doane U.	554	1 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	1 i	0 i
U. North Georgia	554	1	0	1	0	0	0	0	0	0	0	0
Vassar C.	554	1	0	0	0	0	0	0	1	0	0	0

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] Includes all other agencies reported.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $169,676 thousand in R&D expenditures financed by all other federal agencies in FY 2020.

[c] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[d] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 66

Higher education R&D expenditures, by state: FYs 2010–20

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
United States	61,286,610	65,274,393	65,729,007	67,013,138	67,199,090	68,549,882	71,767,849	75,147,144	79,026,269	83,534,148	86,296,178
Alabama	847,072	898,422	830,538	837,871	812,803	898,010	944,506	994,210	1,052,494	1,123,491	1,186,697
Alaska	180,888	185,942	181,983	184,472	174,431	163,012	167,308	176,424	165,198	169,296	177,537
Arizona	944,795	997,700	1,039,424	1,065,136	1,047,329	1,099,837	1,162,283	1,213,469	1,358,920	1,434,177	1,499,135
Arkansas	267,405	282,628	289,364	294,572	285,691	293,494	298,497	312,533	343,066	364,781	370,782
California	7,832,767	8,225,420	8,401,638	8,357,891	8,403,770	8,656,350	8,887,228	9,225,392	10,172,252	10,484,402	10,910,956
Colorado	1,180,741	1,292,081	1,338,888	1,253,466	1,232,376	1,273,753	1,378,920	1,461,877	1,552,251	1,622,011	1,665,742
Connecticut	888,949	945,705	946,289	1,059,367	1,062,741	1,091,381	1,176,170	1,254,440	1,287,024	1,387,319	1,400,865
Delaware	168,511	188,765	185,842	197,262	193,242	191,704	197,615	204,221	207,569	229,287	244,321
District of Columbia	470,217	493,469	501,534	524,241	543,149	559,222	555,721	601,551	630,161	664,872	684,793
Florida	1,994,860	2,125,648	2,179,352	2,171,626	2,272,556	2,354,871	2,483,359	2,584,487	2,529,896	2,685,834	2,722,627
Georgia	1,691,603	1,808,679	1,882,308	1,956,245	1,950,990	2,046,068	2,168,071	2,340,410	2,473,503	2,667,874	2,782,005
Hawaii	317,942	330,838	335,704	343,802	335,189	332,233	318,134	301,204	297,975	301,419	298,285
Idaho	126,433	142,364	146,326	143,728	142,772	146,700	154,989	163,093	171,053	167,903	170,595
Illinois	2,224,414	2,352,326	2,362,224	2,501,413	2,327,098	2,382,947	2,400,990	2,503,276	2,570,270	2,709,733	2,764,954
Indiana	1,186,421	1,271,364	1,306,462	1,336,343	1,308,856	1,323,824	1,408,862	1,461,367	1,505,426	1,661,312	1,733,623
Iowa	706,667	724,608	718,281	714,366	773,760	758,796	814,031	830,587	885,861	880,424	917,407
Kansas	482,901	511,048	527,122	545,364	547,813	562,254	559,279	577,566	640,735	703,716	739,872
Kentucky	575,277	596,081	586,240	550,941	533,834	516,754	546,527	583,143	596,532	615,383	641,301
Louisiana	713,675	727,510	699,228	671,580	665,754	662,778	683,125	690,958	744,283	778,357	798,373
Maine	137,516	139,983	120,072	104,573	124,688	103,102	100,351	122,740	128,500	151,249	151,263
Maryland	3,139,254	3,416,687	3,359,741	3,433,145	3,573,167	3,741,687	3,799,639	4,017,092	4,167,470	4,629,161	4,745,030
Massachusetts	2,749,926	2,949,264	3,214,549	3,532,767	3,500,516	3,673,620	3,796,798	3,928,192	4,059,931	4,305,676	4,361,466
Michigan	2,031,479	2,161,520	2,219,505	2,267,080	2,242,864	2,334,031	2,468,498	2,662,045	2,781,359	2,891,267	2,867,807
Minnesota	831,754	898,741	864,938	901,404	919,257	928,999	961,040	968,784	999,660	1,060,927	1,086,730
Mississippi	443,625	460,962	476,078	416,772	410,543	408,232	454,983	479,122	479,431	535,774	506,660
Missouri	1,087,432	1,121,330	1,098,287	1,074,632	1,050,665	1,074,115	1,151,047	1,188,439	1,260,217	1,368,942	1,444,375
Montana	207,827	195,267	196,721	185,996	181,127	181,680	195,125	229,206	230,099	273,459	290,297
Nebraska	400,660	412,756	438,303	444,917	454,744	464,664	481,383	513,581	535,911	572,488	586,777
Nevada	174,247	165,437	153,325	153,427	153,571	157,528	191,155	205,761	260,074	282,740	296,470
New Hampshire	311,455	359,839	366,337	354,296	365,537	357,665	379,991	455,859	471,347	492,183	484,313
New Jersey	1,075,872	1,141,570	1,113,109	1,173,474	1,130,474	1,106,186	1,158,998	1,261,174	1,350,470	1,336,562	1,385,864
New Mexico	422,868	405,339	400,952	403,776	412,428	390,913	367,031	370,329	369,927	365,769	376,331
New York	4,948,442	5,288,932	5,352,978	5,519,542	5,638,584	5,700,230	6,075,419	6,388,367	6,633,634	7,075,350	7,156,316
North Carolina	2,465,260	2,668,842	2,681,840	2,739,920	2,814,943	2,814,924	2,937,671	3,081,568	3,204,297	3,388,360	3,385,735
North Dakota	204,049	211,057	215,642	219,115	222,032	217,926	226,572	255,942	255,534	263,217	267,308

TABLE 66

Higher education R&D expenditures, by state: FYs 2010–20

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Ohio	2,051,857	2,221,827	2,128,968	2,168,267	2,158,565	2,152,796	2,193,019	2,299,112	2,370,346	2,499,431	2,518,803
Oklahoma	400,731	444,722	437,180	420,067	419,653	419,602	488,559	505,940	517,283	533,785	604,114
Oregon	696,272	739,733	722,421	704,764	705,688	719,881	759,243	780,741	820,988	863,844	894,789
Pennsylvania	3,128,420	3,315,363	3,239,240	3,361,374	3,328,851	3,356,723	3,950,517	4,178,978	4,406,037	4,650,139	4,820,355
Rhode Island	428,738	459,321	495,366	479,162	447,469	453,291	462,777	332,483	368,079	390,575	395,730
South Carolina	660,415	620,533	636,534	648,137	655,757	665,319	687,110	699,199	736,318	742,924	742,557
South Dakota	131,165	136,305	129,200	117,361	104,962	103,368	106,941	112,916	115,860	118,377	110,619
Tennessee	938,237	1,016,915	1,025,283	1,032,124	1,133,373	1,077,068	1,091,835	1,183,795	1,293,909	1,337,211	1,398,914
Texas	4,416,323	4,661,517	4,651,322	4,813,050	4,898,443	5,036,366	5,254,298	5,472,126	5,622,830	5,970,929	6,619,640
Utah	562,349	627,180	622,244	688,972	693,796	733,407	573,106	611,015	812,458	924,632	950,562
Vermont	132,792	137,303	120,226	121,110	114,549	119,663	120,306	122,003	131,670	138,716	193,824
Virginia	1,199,244	1,390,412	1,379,440	1,419,504	1,381,078	1,411,176	1,462,939	1,551,003	1,684,274	1,814,048	1,921,215
Washington	1,358,061	1,502,284	1,475,365	1,561,573	1,537,190	1,548,580	1,645,843	1,715,069	1,779,849	1,805,214	1,827,021
West Virginia	194,834	210,899	202,118	196,492	195,675	199,167	199,164	210,259	211,695	212,963	217,788
Wisconsin	1,335,621	1,442,933	1,483,983	1,419,426	1,412,594	1,372,168	1,458,791	1,504,056	1,542,163	1,659,873	1,746,799
Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne
Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043
Puerto Rico	125,123	163,853	151,532	135,659	123,285	126,792	120,619	113,868	103,935	121,074	111,101
Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631

ne = not eligible; no institutions within the state met the criteria for inclusion.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Alabama											
Public											
Alabama A&M U.	30,497	30,238 i	29,979 i	29,720 i	29,461 i	29,202	25,112 i	21,022 i	16,932 i	12,840	8,749
Alabama State U.	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582
Auburn U., Auburn	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281
Jacksonville State U.	398	624	ne	ne	ne	3,242	3,231	3,120 i	3,008	2,429	1,244
Troy U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692
U. Alabama, Birmingham	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226
U. Alabama, Huntsville	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648
U. Alabama, Tuscaloosa	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200
U. South Alabama	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102
Private											
Tuskegee U.	15,581	15,685	15,991	21,150	24,945	20,740 i	16,535	16,535	16,535	20,562	20,973
Alaska											
Public											
U. Alaska, Anchorage	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713
U. Alaska, Fairbanks	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299
U. Alaska, Southeast	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264
Private											
Alaska Pacific U.	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261
Arizona											
Public											
Arizona State U.	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357
Dine C.	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
Northern Arizona U.	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456
U. Arizona	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975
Arkansas											
Public											
Arkansas State U., Jonesboro	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640
U. Arkansas for Medical Sciences	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549
U. Arkansas, Fayetteville	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887
U. Arkansas, Little Rock	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711
U. Arkansas, Pine Bluff	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540
U. Central Arkansas	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
California											
Public											
California Polytechnic State U., San Luis Obispo	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605
California State Polytechnic U., Pomona	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396
California State U., Bakersfield	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053
California State U., Channel Islands	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497
California State U., Chico	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305
California State U., Dominguez Hills	2,743	2,780	2,894	4,671	3,614 i	2,557	2,790	1,858	2,043	1,957	2,065
California State U., East Bay	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072
California State U., Fresno	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856
California State U., Fullerton	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929
California State U., Long Beach	15,494	14,595 i	13,696 i	12,796	10,097	8,830	16,390	18,805	22,880	18,664	16,684
California State U., Los Angeles	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590
California State U., Maritime Academy	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202
California State U., Monterey Bay	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874
California State U., Northridge	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228
California State U., Sacramento	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939
California State U., San Bernardino	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819
California State U., San Marcos	5,788	6,795 i	7,802 i	8,809	8,302	6,432	6,634	6,549	8,348	10,595	13,250
California State U., Stanislaus	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843
Humboldt State U.	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236
Naval Postgraduate School	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903
San Diego State U.	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710
San Francisco State U.	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,078 i
San Jose State U.	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301
Sonoma State U.	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545
U. California, Berkeley	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000
U. California, Davis	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693
U. California, Irvine	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597
U. California, Los Angeles	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. California, Merced	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966
U. California, Office of the President	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686
U. California, Riverside	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894
U. California, San Diego	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735
U. California, San Francisco	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073
U. California, Santa Barbara	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434
U. California, Santa Cruz	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400
Private											
Azusa Pacific U.	ne	3,620	2,056 i	ne	ne	7,521	8,898	8,430	8,380	5,598	7,068
Biola U.	ne	ne	ne	ne	ne	ne	1,000 i	1,034 i	1,085 i	1,155 i	1,187 i
California Institute of Technology	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651
California Lutheran U.	ne	741	ne	ne	ne	ne	ne	ne	ne	1,143	630
Chapman U.	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660
Charles R. Drew U. of Medicine and Science	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682
Claremont Graduate U.	7,116	6,589	10,350	9,705	9,540 i	9,375 i	9,210 i	9,045 i	8,880 i	8,715	9,403
Claremont McKenna C.	5,725	5,316	5,365 i	5,414 i	5,463 i	ne	6,094	5,818	5,693	6,214	5,846
Harvey Mudd C.	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916
High Tech High Graduate School of Ed.	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304
Keck Graduate Institute	ne	2,313	1,920	2,357	2,132	1,722	1,814 i	1,875 i	1,967 i	2,095 i	2,152 i
La Sierra U.	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647
Loma Linda U.	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	22,922 i	24,408 i	25,077 i
Loyola Marymount U.	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193
Marshall B. Ketchum U.	ne	ne	ne	ne	1,030	1,468	1,491	1,512 i	1,451 i	1,430 i	1,357 i
Mills C.	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541
Occidental C.	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657
Pepperdine U.	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006
Pomona C.	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855
Santa Clara U.	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682
Scripps Research Institute	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964
Stanford U.	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950
Touro U.	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. of the Pacific	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713
U. San Diego	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607
U. San Francisco	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161
U. Southern California	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198
Western U. of Health Sciences	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899
Colorado											
Public											
Colorado School of Mines	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517
Colorado State U., Fort Collins	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302
Colorado State U., Pueblo	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104
Fort Lewis C.	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370
U. Colorado Boulder	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674
U. Colorado Colorado Springs	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557
U. Colorado Denver and Anschutz Medical Campus	389,461	417,587	431,977	409,443	411,020	410,081	443,705	480,598	525,531	542,732	554,643
U. Northern Colorado	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738
U.S. Air Force Academy	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197
Private											
Colorado C.	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233	2,291
U. Denver	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551	41,349
Connecticut											
Public											
Central Connecticut State U.	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381	1,572
Eastern Connecticut State U.	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659	1,799
Southern Connecticut State U.	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627	5,413
U. Connecticut	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764	280,131
Private											
Connecticut C.	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894	1,598
Fairfield U.	9,294	9,892	9,331	i 8,769	9,155	5,750	6,174	8,749	1,742	1,279	1,210
Trinity C., Hartford	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858	1,428
U. Hartford	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528	1,436
U. New Haven	ne	2,009	2,723	1,400	1,616	i 1,832	3,822	5,005	5,585	5,062	3,843
Wesleyan U.	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958	8,300
Yale U.	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309	1,094,135
Delaware											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
Delaware State U.	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,876 i
U. Delaware	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445
District of Columbia											
Public											
National Defense U.	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583
U. of the District of Columbia	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800	4,590
Private											
American U.	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839
Catholic U. of America	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221
Gallaudet U.	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599
George Washington U.	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369
Georgetown U.	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659
Howard U.	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933
Florida											
Public											
Florida A&M U.	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470	41,319
Florida Atlantic U.	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845
Florida Gulf Coast U.	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671
Florida International U.	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006	1,091
Florida State U.	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	239,343
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223
U. North Florida	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573
U. South Florida, Saint Petersburg	4,425	3,978	5,488	6,905	6,908	7,292	7,116	8,661	8,478	11,686	18,243
U. South Florida, Sarasota-Manatee	732	914	ne	ne	1,026	1,595	1,827	1,883	1,934	1,872	2,150
U. South Florida, Tampa	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	41,977	40,051
Private											
Embry-Riddle Aeronautical U.	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786
Florida Institute of Technology	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271
Nova Southeastern U.	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Miami	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410
Georgia											
Public											
Albany State U.	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060
Augusta U.	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961
Columbus State U.	ne	1,808	1,432	ne	ne	ne	ne	ne	ne	ne	261
Fort Valley State U.	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921
Georgia Institute of Technology	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988
Georgia Southern U.	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166
Georgia State U.	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451
Kennesaw State U.	1,854	1,961	3,511	i 5,062	2,192	4,762	8,279	9,510	11,214	30,381	17,954
Savannah State U.	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804
U. Georgia	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786
U. North Georgia	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905
Private											
Clark Atlanta U.	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452
Emory U.	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792
Mercer U.	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116
Morehouse C.	7,857	8,485	i 9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825
Morehouse School of Medicine	30,669	i 33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813
Spelman C.	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750
Hawaii											
Public											
U. Hawaii, Hilo	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864	6,992
U. Hawaii, Manoa	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929
U. Hawaii, system office	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568
Private											
Hawaii Pacific U.	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796
Idaho											
Public											
Boise State U.	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824	43,307
Idaho State U.	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478
U. Idaho	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810
Illinois											
Public											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Illinois State U.	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	32,260
Northeastern Illinois U.	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018
Northern Illinois U.	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420
Southern Illinois U., Carbondale	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617
Southern Illinois U., Edwardsville	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273
U. Illinois, Chicago	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147
U. Illinois, Springfield	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406
U. Illinois, Urbana-Champaign	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176
Western Illinois U.	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461
Private											
Bradley U.	1,151	1,910	2,392	2,860	1,514	1,499	2,122	1,839	1,274	1,357	851
DePaul U.	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557
Erikson Institute	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992
Illinois Institute of Technology	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122
Loyola U., Chicago	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365
Midwestern U.	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479
Northwestern U.	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671
Rosalind Franklin U. of Medicine and Science	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601
Rush U.	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438
Toyota Technological Institute, Chicago	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887
U. Chicago	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891
Wheaton C., Wheaton	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322
Indiana											
Public											
Ball State U.	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145	9,429
Indiana State U.	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471
Indiana U., Bloomington	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	728,554
Indiana U.-Purdue U., Indianapolis	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	71,387
Purdue U., Fort Wayne	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264
Purdue U., Northwest	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839
Purdue U., West Lafayette	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144
Private											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Notre Dame	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535
Iowa											
Public											
Iowa State U.	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107
U. Iowa	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583
U. Northern Iowa	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970
Private											
Des Moines U.	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021
Grinnell C.	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826
Palmer C. of Chiropractic, Davenport	4,693	4,861	4,507	3,774	2,736 i	1,698	1,510	1,836	1,600	1,650	1,900
Kansas											
Public											
Fort Hays State U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172
Kansas State U.	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900
Pittsburg State U.	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173
U. Kansas	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811
Wichita State U.	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816
Kentucky											
Public											
Eastern Kentucky U.	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010
Kentucky State U.	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151 i	9,125	8,433	7,963
Morehead State U.	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883
Murray State U.	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019
Northern Kentucky U.	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693
U. Kentucky	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674
U. Louisville	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818
Western Kentucky U.	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241
Louisiana											
Public											
Grambling State U.	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427
Louisiana State U., Baton Rouge	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733
Louisiana State U., Health Sciences Center, New Orleans	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Louisiana State U., Health Sciences Center, Shreveport	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321
Louisiana Tech U.	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585
Northwestern State U. Louisiana	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940
Southeastern Louisiana U.	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258
Southern U. and A&M C., Agricultural Research and Extension Center	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000 i	5,296	5,448	4,475
Southern U. and A&M C., Baton Rouge	6,865	6,819 i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849
U. Louisiana, Lafayette	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070
U. Louisiana, Monroe	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362
U. New Orleans	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594
Private											
Dillard U.	8,425	7,936 i	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523
Tulane U.	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430
Xavier U. Louisiana	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387
Maine											
Public											
U. Maine	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	132,184
U. Southern Maine	16,358	16,938	13,915	11,725	9,408 i	7,091 i	4,773	7,147	7,414	6,654	5,635
Private											
Bates C.	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303
Bowdoin C.	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719
Colby C.	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536
U. New England	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886
Maryland											
Public											
Bowie State U.	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967
Morgan State U.	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193
Salisbury U.	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496
Towson U.	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612
U. Baltimore	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054
U. Maryland[a]	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Maryland Center for Environmental Science	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560
U. Maryland, Baltimore County	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867
U. Maryland, Eastern Shore	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092
U.S. Naval Academy	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123
Uniformed Services U. of the Health Sciences	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510
Private											
Johns Hopkins U.[b]	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494
Massachusetts											
Public											
Framingham State U.	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317
U. Massachusetts, Amherst	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389
U. Massachusetts, Boston	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219
U. Massachusetts, central office	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916	5,225
U. Massachusetts, Dartmouth	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836
U. Massachusetts, Lowell	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216
U. Massachusetts, Medical School	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096
Private											
Amherst C.	3,628	4,623	5,448	i 6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906
Babson C.	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352
Boston C.	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063
Boston U.	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267
Brandeis U.	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	63,201
Clark U.	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277
Emerson C.	ne	ne	ne	ne	ne	1,291	1,114	1,488	2,059	1,145	919
Franklin W. Olin C. of Engineering	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404
Harvard U.	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983
Massachusetts Institute of Technology	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968
Merrimack C.	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503
MGH Institute of Health Professions	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549
Mount Holyoke C.	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
New England C. of Optometry	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150
Northeastern U.	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068
Smith C.	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685
Stonehill C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	833
Suffolk U.	ne	1,624	1,303	1,551	1,534	1,305	1,492 i	1,679 i	ne	ne	2,106
Tufts U.	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241
Wellesley C.	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088
Williams C.	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924 i
Woods Hole Oceanographic Institution	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573
Worcester Polytechnic Institute	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092
Michigan											
Public											
Central Michigan U.	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448
Eastern Michigan U.	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088
Grand Valley State U.	5,044	6,429 i	7,814 i	9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792
Michigan State U.	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197
Michigan Technological U.	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343
U. Michigan, Ann Arbor	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805	1,673,862
U. Michigan, Dearborn	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777
U. Michigan, Flint	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247
Wayne State U.	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259
Western Michigan U. and Homer Stryker M.D. School of Medicine	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071	24,541
Private											
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430 i	1,809	1,456	1,937	1,577	1,497 i
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822
Kettering U.	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081
Lawrence Technological U.	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982
Minnesota											
Public											
Minnesota State U., Mankato	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392	2,754
St. Cloud State U.	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056
U. Minnesota, Duluth	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137
U. Minnesota, Morris	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004
U. Minnesota, Twin Cities	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112	1,042,382
Private											
C. of Saint Benedict	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126 i	1,069 i
Carleton C.	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732
Macalester C.	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755
Saint John's U., Collegeville	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191 i	1,130 i
St. Olaf C.	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032
U. of St. Thomas (MN)	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679
Mississippi											
Public											
Alcorn State U.	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710
Jackson State U.	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081
Mississippi State U.	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485
U. Mississippi	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960
U. Southern Mississippi	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322
Private											
Tougaloo C.	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102
Missouri											
Public											
Lincoln U., Jefferson City	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777
Missouri State U.	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131
Missouri U. of Science and Technology	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001
U. Missouri, Columbia	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180
U. Missouri, Kansas City	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356
U. Missouri, Saint Louis	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352
Private											
Saint Louis U.	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. of Health Sciences and Pharmacy in St. Louis	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835
Washington U., Saint Louis	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088	920,215
Montana											
Public											
Montana State U., Bozeman	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811	166,285
Montana Technological U.	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987
Salish Kootenai C.	880	1,153	1,415	1,612	1,399	i 1,186	1,142	1,481	1,741	1,252	807
U. Montana, Missoula	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218
Nebraska											
Public											
U. Nebraska, central administration	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860	23,672
U. Nebraska, Kearney	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640
U. Nebraska, Lincoln	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820	320,463
U. Nebraska, Medical Center	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406
U. Nebraska, Omaha	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134
Private											
Creighton U.	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339
Doane U.	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093	1,123 i
Nevada											
Public											
Desert Research Institute	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428
U. Nevada, Las Vegas	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872
U. Nevada, Reno	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790
Private											
Roseman U. of Health Sciences	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176 i	4,380
New Hampshire											
Public											
Keene State C.	ne	2,290	2,338 i	2,387	2,601	966	ne	908	ne	1,061	1,063
U. New Hampshire	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901
Private											
Dartmouth C. and Dartmouth Hitchcock Medical Center	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	342,142	326,349
New Jersey											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
C. New Jersey	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464
Kean U.	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201
Montclair State U.	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636
New Jersey City U.	188	ne	ne	ne	ne	ne	ne	5,442	8,211	5,961	262
New Jersey Institute of Technology	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232	155,715
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018
Rutgers, State U. New Jersey, Camden	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211	3,950
Rutgers, State U. New Jersey, New Brunswick	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249	688,077
Rutgers, State U. New Jersey, Newark	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661	28,006
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603
Private											
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502
Seton Hall U.	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718
Stevens Institute of Technology	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747
New Mexico											
Public											
New Mexico Highlands U.	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090
New Mexico Institute of Mining and Technology	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616	24,591
New Mexico State U.	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275
U. New Mexico	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375
New York											
Public											
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373
CUNY, Baruch C.	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074
CUNY, C. Staten Island	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986	3,682
CUNY, City C.	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399	4,787
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	ne	9,751	9,521	12,177
CUNY, Hunter C.	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345
CUNY, John Jay C. of Criminal Justice	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295	13,939
CUNY, Lehman C.	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154
CUNY, Medgar Evers C.	658	2,065	1,635	1,241	1,083	970	ne	2,046	2,062	1,397	882
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130
CUNY, Queens C.	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691
SUNY, Binghamton U.	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870
SUNY, Buffalo State	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719
SUNY, C. of Environmental Science and Forestry	26,916	25,024 i	23,132 i	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296
SUNY, C. of Optometry	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452
SUNY, Downstate Medical Center	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651
SUNY, Stony Brook U.	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470
SUNY, U. Albany	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088
SUNY, U. Buffalo	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038
SUNY, Upstate Medical U.	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557
U.S. Military Academy	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473
Private											
Albany C. of Pharmacy and Health Sciences	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383	3,765
Albany Medical C.	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510
Albert Einstein C. of Medicine	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654
Alfred U.	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Barnard C.	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748
Clarkson U.	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104
Cold Spring Harbor Laboratory	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198
Colgate U.	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913
Columbia U. in the City of New York	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909
Cornell U.	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063
Fordham U.	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456
Hamilton C.	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869
Hobart and William Smith Colleges	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114
Hofstra U.	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445
Icahn School of Medicine at Mount Sinai	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014
Ithaca C.	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199
Long Island U.	832 i	877 i	890 i	915	ne	ne	1,420	2,290	2,405	5,113	13,997
Manhattan C.	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737
New School	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186
New York Institute of Technology	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580
New York Medical C.	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137
New York U.	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293
Niagara U.	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057	1,124
Pace U.	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272
Rensselaer Polytechnic Institute	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	107,623
Rochester Institute of Technology	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777
Rockefeller U.	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217
Skidmore C.	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412
St. Bonaventure U.	1,727	1,936	986	ne	ne	ne	731	ne	ne	ne	585
St. John's U., New York	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282
Syracuse U.	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Teachers C., Columbia U.	17,167	18,406	20,805	19,649	20,538	23,269	24,124	24,194	24,477	24,865	22,630
U. Rochester	414,655	429,034	389,612	389,355	353,419	346,932	346,165	353,003	370,645	393,960	397,211
Union C., Schenectady	1,984	1,615	1,516	2,402	1,924	1,560	2,150	1,189	1,540	1,740	1,062
Vassar C.	1,280	1,838	1,258	1,694	1,220	2,854	1,495	1,600	4,185	1,009	1,568
Yeshiva U.	314,240	281,334	289,027	271,166	306,826	306,174	46,130	3,258	3,302	2,420	2,763
North Carolina											
Public											
Appalachian State U.	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268	4,894
East Carolina U.	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611	57,820
Elizabeth City State U.	5,576	10,455	4,455	4,515	2,988	2,277	1,889	1,340	978	ne	1,473
Fayetteville State U.	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695	2,797
North Carolina Agricultural and Technical State U.	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339	36,151
North Carolina Central U.	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227	15,833
North Carolina State U.	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100	546,290
U. North Carolina, Asheville	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602	4,789
U. North Carolina, Chapel Hill	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773	1,159,725
U. North Carolina, Charlotte	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187	50,050
U. North Carolina, general administration	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154	3,942
U. North Carolina, Greensboro	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325	28,966
U. North Carolina, Wilmington	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515	16,544
Western Carolina U.	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633	2,696
Winston-Salem State U.	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011	5,781
Private											
Davidson C.	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777	2,263
Duke U.	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517	1,196,638
Elon U.	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545	1,968
Johnson C. Smith U.	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148	2,472
Wake Forest U.	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933	244,643
North Dakota											
Public											
North Dakota State U.	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381	155,645
U. North Dakota	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836	111,663
Ohio											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
Air Force Institute of Technology	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016	35,584
Bowling Green State U.	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026	18,729
Central State U.	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766	6,107
Cleveland State U.	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077	78,189
Kent State U.	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188	50,307
Miami U.	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380	24,489
Northeast Ohio Medical U.	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016	15,758
Ohio State U.	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250	968,260
Ohio U.	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735	51,914
U. Akron	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020	23,496
U. Cincinnati	411,269	448,936	433,668	438,642	422,873	436,028	430,579	455,250	480,095	529,796	530,138
U. Toledo	70,399	74,149	68,228	69,072	61,900	52,354	50,019	50,030	50,320	55,006	54,100
Wright State U.	48,575	48,501	46,213	50,489	54,985	54,289	55,484	59,379	68,035	64,208	49,825
Youngstown State U.	4,523	4,732	3,598	3,785	3,464	3,348	2,342	4,439	4,463	4,447	4,120
Private											
C. Wooster	988	1,225	966	ne	1,321	1,245 i	ne	1,644	1,494	1,758	1,076
Case Western Reserve U.	418,164	429,206	431,090	425,788	419,011	401,527	405,655	408,609	434,441	438,994	439,778
Heidelberg U.	ne	1,219 i	ne	1,129	1,539	1,109	1,286	1,621	1,280	1,237	1,125
Kenyon C.	428	433	ne	ne	ne	ne	ne	ne	1,227	1,092	908
Oberlin C.	1,985	1,710	1,856	1,670	1,819	1,932	1,305	1,887	1,803	2,076	1,182
U. Dayton	93,309	90,557	81,030	84,252	86,881	98,182	116,589	135,214	147,001	165,343	163,718
Oklahoma											
Public											
Langston U.	4,492	5,206	5,326	4,932	8,512	8,126	11,178	11,025 i	10,872 i	10,719	14,409
Oklahoma State U., Center for Health Sciences	4,398	2,815	2,122	2,137	1,805	1,625	2,182	2,454	2,608	5,408	8,378
Oklahoma State U., Stillwater	147,094	162,786	166,523	134,500	126,543	129,968	181,617	189,024	188,756	184,276	187,060
U. Central Oklahoma	1,786	1,548	1,028	1,067	1,362	7,691	6,275	5,832	5,104	5,682	5,788 i
U. Oklahoma, Norman and Health Science Center	218,089	249,297	240,974	255,674	253,344	242,367	259,998	272,239	283,638	302,679	362,209
U. Oklahoma, Tulsa	ne	ne	ne	ne	ne	4,104	4,962	4,487	6,233	6,373	7,483
Private											
U. Tulsa	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787
Oregon											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
Oregon Health and Science U.	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890
Oregon Institute of Technology	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793	4,267
Oregon State U.	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385
Portland State U.	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667
U. Oregon	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259
Private											
Lewis and Clark C.	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350
National U. of Natural Medicine	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428
Pacific U.	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842
Reed C.	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155
Willamette U.	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546
Pennsylvania											
Public											
Indiana U. Pennsylvania	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531
Pennsylvania State U., Behrend	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743
Pennsylvania State U., Harrisburg	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866
Pennsylvania State U., University Park and Hershey Medical Center	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923
Temple U.	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707
U. Pittsburgh, Pittsburgh	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532
West Chester U. Pennsylvania	5,584 i	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414
Private											
Bryn Mawr C.	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575
Bucknell U.	5,456	5,043	4,009	4,297	4,464	4,140	4,516 i	4,892 i	5,269	5,625	5,339 i
Carnegie Mellon U.	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996
Dickinson C.	2,109	2,050	2,167	1,570	1,612	1,492	1,332	869	ne	1,037	929
Drexel U.	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123
Duquesne U.	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485
Franklin and Marshall C.	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623
Gettysburg C.	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913
Haverford C.	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473
La Salle U.	1,298	1,460	1,156	1,139	1,039	1,079	989 i	ne	ne	ne	818

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Lafayette C.	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390
Lehigh U.	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064
Mercyhurst U.	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669 i	ne	1,801 i	1,850 i
Philadelphia C. of Osteopathic Medicine	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360
Saint Joseph's U.	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150
Swarthmore C.	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544
Thomas Jefferson U.	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377
U. of the Sciences Philadelphia	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761
U. Pennsylvania	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364
Villanova U.	10,066 i	10,044	8,547 i	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505
Rhode Island											
Public											
Naval War C.	ne	ne	2,938 i	2,700 i	2,736 i	2,653	3,210	4,240 i	5,270	5,060	5,944
Rhode Island C.	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094
U. Rhode Island	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967
Private											
Brown U.	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092
Rhode Island School of Design	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i	975 i
Roger Williams U.	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531
South Carolina											
Public											
C. Charleston	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610	5,728
Citadel Military C. South Carolina	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597
Coastal Carolina U.	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903
Medical U. South Carolina	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590
South Carolina State U.	7,167	10,037 i	12,909	12,809 i	12,709 i	12,607	13,076 i	14,300	15,130 i	3,659	3,796 i
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217
Private											
Benedict C.	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649
Claflin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101
South Dakota											
Public											
Black Hills State U.	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031	1,499
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412
South Dakota School of Mines and Technology	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973	14,490
South Dakota State U.	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939
U. South Dakota	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279
Tennessee											
Public											
Austin Peay State U.	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285	2,833
East Tennessee State U.	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925
Middle Tennessee State U.	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	15,377
Tennessee Technological U.	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463
U. Tennessee, Chattanooga	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834
U. Tennessee, Health Science Center	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979	99,716
U. Tennessee, Knoxville[c]	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407
Private											
Fisk U.	7,700	4,849	4,058	6,565 i	9,073	9,854 i	10,635	5,017	2,790	4,748	3,904
Lipscomb U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,000 i
Meharry Medical C.	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870
Vanderbilt U. and Vanderbilt U. Medical Center	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937	824,803
Texas											
Public											
Lamar U.	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327
Midwestern State U.	348	ne	ne	ne	ne	ne	ne	ne	ne	ne	891
Prairie View A&M U.	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018	18,723
Sam Houston State U.	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437
Stephen F. Austin State U.	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679	3,672
Sul Ross State U.	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Tarleton State U.	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890
Texas A&M International U.	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068	3,067
Texas A&M U., College Station and Health Science Center	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156	1,130,803
Texas A&M U.-Commerce	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403	4,166
Texas A&M U.-Corpus Christi	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944	32,284
Texas A&M U.-Kingsville	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268	22,745
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	4,782
Texas State U.	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714
Texas Tech U.	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643
Texas Tech U., Health Sciences Center	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072	44,135
Texas Tech U., Health Sciences Center, El Paso	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421
Texas Woman's U.	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428
U. Houston-Clear Lake	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363
U. Houston-Downtown	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299
U. North Texas, Denton	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239
U. North Texas, Health Science Center	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	47,392
U. Texas Health Science Center, Houston	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862
U. Texas Health Science Center, San Antonio	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949 i	19,606 i	21,265
U. Texas M. D. Anderson Cancer Center	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297
U. Texas Medical Branch	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595
U. Texas of the Permian Basin	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702
U. Texas Southwestern Medical Center	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939
U. Texas, Arlington	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793
U. Texas, Austin	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas, Dallas	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192
U. Texas, El Paso	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628
U. Texas, San Antonio	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586
U. Texas, Tyler	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007
West Texas A&M U.	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437	6,220
Private											
Baylor C. of Medicine	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681
Southern Methodist U.	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081
St. Edward's U.	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619
Texas Christian U.	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326
Trinity U.	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472
U. of the Incarnate Word	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469
Utah											
Public											
U. Utah	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061
Utah State U.	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256
Weber State U.	983	1,314	990	ne	ne	ne	ne	ne	ne	ne	676
Private											
Brigham Young U., Provo	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582	38,569
Vermont											
Public											
U. Vermont	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147
Private											
Middlebury C.	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720
Saint Michael's C.	644	734	ne	1,620	1,541	1,532	1,624	1,415	1,482	1,200	957
Virginia											
Public											
Christopher Newport U.	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961	2,608
Eastern Virginia Medical School	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870
George Mason U.	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	221,006
James Madison U.	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247
Norfolk State U.	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153
Old Dominion U.	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. of Mary Washington	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315	1,393
U. Virginia, Charlottesville	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938	652,002
Virginia Commonwealth U.	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648	283,874
Virginia Polytechnic Institute and State U.	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969	556,341
Virginia State U.	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457	10,014
William & Mary	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835	66,763
Private											
Edward Via C. of Osteopathic Medicine	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225	7,475
Hampton U.	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402
Liberty U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894
U. Richmond	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469
Washington											
Public											
Central Washington U.	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223	2,674
Eastern Washington U.	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282
Northwest Indian C.	2,426	2,744 i	2,847	3,247	2,609	1,631 i	ne	ne	2,154	2,659	2,708 i
U. Washington, Bothell	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107
U. Washington, Seattle	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601	1,456,902
U. Washington, Tacoma	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504
Washington State U.	304,352	320,510	335,930	341,082	326,414	333,134	334,082	331,051	331,424	344,997	335,201
Western Washington U.	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823
Private											
Seattle U.	1,337 i	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060
U. Puget Sound	461	530	ne	ne	ne	ne	ne	902	ne	ne	895
Whitman C.	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865
West Virginia											
Public											
Marshall U.	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622	22,250
West Virginia School of Osteopathic Medicine	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311
West Virginia State U.	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775
West Virginia U.	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452
Wisconsin											

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
U. Wisconsin-Eau Claire	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318
U. Wisconsin-Green Bay	1,219	1,239 i	1,259 i	1,279 i	1,299 i	1,320	1,599	1,510	1,454	2,083	1,982
U. Wisconsin-La Crosse	4,141	3,862 i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795
U. Wisconsin-Madison	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331	1,363,931
U. Wisconsin-Milwaukee	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069
U. Wisconsin-Oshkosh	1,556	2,384	2,331	2,167	1,935 i	1,703 i	ne	1,538 i	1,627 i	1,713 i	1,777 i
U. Wisconsin-Platteville	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i	1,104 i
U. Wisconsin-River Falls	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107
U. Wisconsin-Stevens Point	6,766	6,171 i	5,576	4,392	3,919 i	3,446 i	2,973	3,420 i	3,867 i	4,314 i	4,764
U. Wisconsin-Superior	5,890	6,187 i	6,041 i	ne	3,030 i	ne	ne	ne	3,068	2,250	2,301
Private											
Marquette U.	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136
Medical C. Wisconsin	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325
Milwaukee School of Engineering	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190
Wyoming											
Public											
U. Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061
Guam											
Public											
U. Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043
Puerto Rico											
Public											
U. Puerto Rico, Cayey	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870	1,974
U. Puerto Rico, Humacao	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456
U. Puerto Rico, Mayaguez	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553
U. Puerto Rico, Medical Sciences Campus	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217
U. Puerto Rico, Rio Piedras	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088	22,895
Private											
Polytechnic U. Puerto Rico	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118	813
Ponce Health Sciences U.	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566
U. Ana G. Mendez, Carolina	1,372	1,358	1,480	1,558	1,374	1,174	1,207	1,359	865	ne	647
U. Ana G. Mendez, Gurabo	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945	2,049

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central del Caribe	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931
Virgin Islands											
Public											
U. of the Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236	13,631

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 68

Higher education R&D expenditures, by state and source of funds: FY 2020

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	86,296,178	46,143,829	4,596,633	21,946,790	5,184,925	5,745,238	2,678,763
Alabama	1,186,697	668,862	64,666	329,347	70,597	36,810	16,415
Alaska	177,537	117,950	4,792	45,529	4,320	2,182	2,764
Arizona	1,499,135	646,691	81,387	495,474	41,711	98,767	135,105
Arkansas	370,782	135,777	71,649	127,066	19,742	11,605	4,943
California	10,910,956	5,523,808	437,639	2,389,545	732,534	1,126,663	700,767
Colorado	1,665,742	1,185,506	52,888	189,942	87,134	94,207	56,065
Connecticut	1,400,865	760,588	11,807	430,411	84,679	102,139	11,241
Delaware	244,321	156,831	11,295	59,559	6,766	4,812	5,058
District of Columbia	684,793	333,185	5,446	192,720	26,548	90,192	36,702
Florida	2,722,627	1,278,252	252,254	889,925	114,269	130,730	57,197
Georgia	2,782,005	1,626,712	171,829	702,890	140,929	122,147	17,498
Hawaii	298,285	184,034	19,383	77,557	2,802	13,022	1,487
Idaho	170,595	86,213	40,139	35,938	3,206	1,998	3,101
Illinois	2,764,954	1,665,534	38,947	696,506	168,728	155,815	39,424
Indiana	1,733,623	756,064	46,570	626,632	111,896	128,912	63,549
Iowa	917,407	429,925	42,796	360,325	46,229	32,283	5,849
Kansas	739,872	318,888	72,227	203,583	111,333	29,458	4,383
Kentucky	641,301	302,255	49,722	201,630	21,919	19,738	46,037
Louisiana	798,373	309,352	96,798	227,320	99,014	40,441	25,448
Maine	151,263	66,227	21,534	54,140	3,032	4,127	2,203
Maryland	4,745,030	3,734,526	87,487	550,090	136,913	225,317	10,697
Massachusetts	4,361,466	2,413,765	42,451	996,243	329,957	426,280	152,770
Michigan	2,867,807	1,425,181	62,989	1,080,879	127,747	128,955	42,056
Minnesota	1,086,730	524,349	85,995	354,291	50,788	44,828	26,479
Mississippi	506,660	268,634	112,409	98,812	10,357	14,761	1,687
Missouri	1,444,375	821,530	29,650	351,102	118,297	112,041	11,755
Montana	290,297	160,950	25,204	91,295	3,758	6,608	2,482
Nebraska	586,777	255,357	71,276	180,551	30,607	23,254	25,732
Nevada	296,470	109,892	12,024	152,046	5,587	6,545	10,376
New Hampshire	484,313	243,635	5,945	188,555	12,789	25,644	7,745
New Jersey	1,385,864	679,242	103,899	301,877	86,749	130,742	83,355
New Mexico	376,331	246,554	27,322	75,246	6,258	13,167	7,784
New York	7,156,316	3,732,130	405,335	1,674,568	509,662	530,030	304,591
North Carolina	3,385,735	1,939,599	163,691	684,547	329,220	214,035	54,643
North Dakota	267,308	75,767	64,606	105,161	13,284	2,113	6,377
Ohio	2,518,803	1,553,657	74,237	498,105	216,432	128,511	47,861
Oklahoma	604,114	243,317	61,388	243,433	37,542	13,578	4,856
Oregon	894,789	608,968	57,580	110,486	49,196	51,110	17,449
Pennsylvania	4,820,355	2,631,476	104,372	1,384,506	317,561	293,798	88,642
Rhode Island	395,730	265,184	14,903	83,884	6,764	18,312	6,683
South Carolina	742,557	349,258	38,938	272,703	42,958	26,418	12,282
South Dakota	110,619	51,468	19,465	18,944	2,770	4,568	13,404
Tennessee	1,398,914	765,928	37,265	433,253	83,419	60,108	18,941
Texas	6,619,640	2,678,449	911,419	1,821,405	463,739	470,846	273,782
Utah	950,562	581,235	29,015	240,746	49,722	39,936	9,908
Vermont	193,824	100,302	1,115	74,273	3,618	8,606	5,910

TABLE 68

Higher education R&D expenditures, by state and source of funds: FY 2020

(Dollars in thousands)

State	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Virginia	1,921,215	876,257	124,213	637,603	94,102	108,949	80,091
Washington	1,827,021	1,196,287	80,831	225,111	71,484	210,689	42,619
West Virginia	217,788	95,147	11,631	79,832	6,597	7,389	17,192
Wisconsin	1,746,799	808,584	126,081	548,630	60,704	149,911	52,889
Wyoming	93,061	57,353	5,164	24,503	4,519	1,394	128
Guam	13,043	9,722	1,706	1,555	25	0	35
Puerto Rico	111,101	75,685	1,559	26,490	4,412	629	2,326
Virgin Islands	13,631	11,787	1,700	26	0	118	0

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
United States	86,296,178	46,143,829	4,596,633	21,946,790	5,184,925	5,745,238	2,678,763
Public	56,663,756	28,492,277	4,204,494	15,609,925	3,175,941	3,281,118	1,900,001
Private	29,632,422	17,651,552	392,139	6,336,865	2,008,984	2,464,120	778,762
Alabama	1,186,697	668,862	64,666	329,347	70,597	36,810	16,415
Public	1,165,724	653,740	62,042	326,641	70,597	36,810	15,894
Alabama A&M U.	8,749	5,643	2,541	448	117	0	0
Alabama State U.	2,582	2,582	0	0	0	0	0
Auburn U., Auburn	255,281	73,468	31,628	130,268	6,700	1,632	11,585
Jacksonville State U.	1,244	1,216	0	28	0	0	0
Troy U.	1,692	1,591	0	66	16	19	0
U. Alabama, Birmingham	618,226	400,110	8,209	116,242	58,758	33,706	1,201
U. Alabama, Huntsville	131,648	104,288	3,407	22,569	970	282	132
U. Alabama, Tuscaloosa	95,200	43,017	16,018	32,141	2,525	1,071	428
U. South Alabama	51,102	21,825	239	24,879	1,511	100	2,548
Private	20,973	15,122	2,624	2,706	0	0	521
Tuskegee U.	20,973	15,122	2,624	2,706	0	0	521
Alaska	177,537	117,950	4,792	45,529	4,320	2,182	2,764
Public	176,276	117,802	4,792	45,529	3,220	2,172	2,761
U. Alaska, Anchorage	22,713	15,290	2,385	4,030	446	368	194
U. Alaska, Fairbanks	152,299	101,414	2,342	41,423	2,774	1,779	2,567
U. Alaska, Southeast	1,264	1,098	65	76	0	25	0
Private	1,261	148	0	0	1,100	10	3
Alaska Pacific U.	1,261	148	0	0	1,100	10	3
Arizona	1,499,135	646,691	81,387	495,474	41,711	98,767	135,105
Public	1,499,135	646,691	81,387	495,474	41,711	98,767	135,105
Arizona State U.	673,357	278,150	40,835	248,659	18,148	62,702	24,863
Dine C.	347	347	0	0	0	0	0
Northern Arizona U.	64,456	39,387	7,342	15,645	523	1,358	201
U. Arizona	760,975	328,807	33,210	231,170	23,040	34,707	110,041
Arkansas	370,782	135,777	71,649	127,066	19,742	11,605	4,943
Public	370,782	135,777	71,649	127,066	19,742	11,605	4,943
Arkansas State U., Jonesboro	8,640	4,712	2,987	746	187	1	7
U. Arkansas for Medical Sciences	174,549	70,508	11,085	69,885	12,826	5,537	4,708
U. Arkansas, Fayetteville	165,887	47,454	54,705	51,260	6,648	5,592	228
U. Arkansas, Little Rock	9,711	7,289	259	1,812	31	320	0
U. Arkansas, Pine Bluff	8,540	4,393	1,748	2,309	0	90	0
U. Central Arkansas	3,455	1,421	865	1,054	50	65	0
California	10,910,956	5,523,808	437,639	2,389,545	732,534	1,126,663	700,767
Public	7,729,399	3,591,324	386,442	1,823,836	528,372	812,469	586,956
California Polytechnic State U., San Luis Obispo	26,605	10,178	2,897	9,932	1,280	2,267	51
California State Polytechnic U., Pomona	7,396	5,514	821	509	344	208	0
California State U., Bakersfield	7,053	4,486	150	2,306	38	22	51
California State U., Channel Islands	1,497	553	574	339	31	0	0
California State U., Chico	4,305	2,520	747	491	16	148	383
California State U., Dominguez Hills	2,065	1,433	32	600	0	0	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
California State U., East Bay	9,072		2,348		992		5,434		77		221		0	
California State U., Fresno	8,856		3,117		2,431		1,949		455		904		0	
California State U., Fullerton	5,929		4,121		262		1,163		49		334		0	
California State U., Long Beach	16,684		12,014		1,908		1,235		617		698		212	
California State U., Los Angeles	10,590		8,380		72		1,817		0		321		0	
California State U., Maritime Academy	3,202		621		151		85		2,345		0		0	
California State U., Monterey Bay	5,874		3,889		1,042		683		8		252		0	
California State U., Northridge	21,228		17,261		1,422		1,515		35		995		0	
California State U., Sacramento	24,939		5,693		13,108		5,520		143		433		42	
California State U., San Bernardino	10,819		5,886		2,750		2,093		0		90		0	
California State U., San Marcos	13,250		11,547		1,308		272		0		123		0	
California State U., Stanislaus	1,843		1,284		73		79		399		8		0	
Humboldt State U.	14,236		2,399		4,147		2,964		212		2,259		2,255	
Naval Postgraduate School	62,903		51,870		0		10,059		485		108		381	
San Diego State U.	97,710		41,117		3,073		48,934		836		2,043		1,707	
San Francisco State U.	33,078	i	16,331	i	2,243	i	13,222	i	67	i	1,200	i	15	i
San Jose State U.	47,301		34,102		6,297		4,100		914		1,345		543	
Sonoma State U.	1,545		936		310		247		16		36		0	
U. California, Berkeley	840,000		349,989		32,598		181,355		81,265		135,100		59,693	
U. California, Davis	816,693		380,965		74,086		208,842		54,246		42,970		55,584	
U. California, Irvine	490,597		241,734		15,947		123,966		33,033		28,381		47,536	
U. California, Los Angeles	1,392,941		655,030		81,216		302,597		82,905		194,946		76,247	
U. California, Merced	45,966		20,000		5,108		16,274		558		1,870		2,156	
U. California, Office of the President	60,686		217		31,777		28,666		0		20		6	
U. California, Riverside	184,894		92,503		10,827		51,440		6,288		7,826		16,010	
U. California, San Diego	1,403,735		727,289		45,233		290,347		109,943		110,299		120,624	
U. California, San Francisco	1,651,073		676,331		32,635		418,048		120,488		231,371		172,200	
U. California, Santa Barbara	254,434		123,198		4,335		54,929		22,578		29,986		19,408	
U. California, Santa Cruz	150,400		76,468		5,870		31,824		8,701		15,685		11,852	
Private	3,181,557		1,932,484		51,197		565,709		204,162		314,194		113,811	
Azusa Pacific U.	7,068		128		95		6,704		2		139		0	
Biola U.	1,187	i	662	i	18	i	300	i	79	i	97	i	31	i
California Institute of Technology	449,651		316,519		1,394		48,754		18,366		36,500		28,118	
California Lutheran U.	630		271		0		359		0		0		0	
Chapman U.	26,660		7,850		1,168		11,717		616		5,301		8	
Charles R. Drew U. of Medicine and Science	13,682		9,863		311		3,202		0		306		0	
Claremont Graduate U.	9,403		809		408		3,440		657		4,046		43	
Claremont McKenna C.	5,846		771		52		4,512		0		511		0	
Harvey Mudd C.	2,916		1,748		0		926		26		93		123	
High Tech High Graduate School of Ed.	3,304		0		0		0		0		3,304		0	
Keck Graduate Institute	2,152	i	1,113	i	0	i	687	i	142	i	35	i	175	i
La Sierra U.	1,647		618		0		531		0		498		0	
Loma Linda U.	25,077	i	17,457	i	754	i	3,382	i	1,857	i	1,526	i	101	i
Loyola Marymount U.	7,193		1,105		921		4,593		3		571		0	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Marshall B. Ketchum U.	1,357	i	323	i	0	i	685	i	349	i	0	i	0	i
Mills C.	1,541		1,341		24		70		0		90		16	
Occidental C.	2,657		1,567		279		NA		303		508		0	
Pepperdine U.	2,006		693		31		623		0		634		25	
Pomona C.	2,855		1,123		12		1,564		0		156		0	
Santa Clara U.	2,682		1,522		311		NA		283		566		0	
Scripps Research Institute	444,964		243,502		4,503		135,483		22,386		39,090		0	
Stanford U.	1,203,950		751,414		26,257		132,235		114,967		168,843		10,234	
Touro U.	3,551		1,558		63		1,876		53		1		0	
U. of the Pacific	1,713		1,375		96		NA		13		229		0	
U. San Diego	8,607		2,398		169		5,418		0		436		186	
U. San Francisco	2,161		148		118		1,372		0		523		0	
U. Southern California	941,198		562,120		13,691		197,247		43,425		50,026		74,689	
Western U. of Health Sciences	5,899		4,486		522		29		635		165		62	
Colorado	1,665,742		1,185,506		52,888		189,942		87,134		94,207		56,065	
Public	1,622,102		1,160,557		51,634		181,880		85,613		87,049		55,369	
Colorado School of Mines	78,517		55,560		2,131		4,255		10,072		1,822		4,677	
Colorado State U., Fort Collins	407,302		287,100		17,707		61,093		13,406		19,938		8,058	
Colorado State U., Pueblo	3,104		1,161		1,791		152		0		0		0	
Fort Lewis C.	1,370		1,228		51		79		12		0		0	
U. Colorado Boulder	525,674		427,869		4,435		35,695		9,942		15,348		32,385	
U. Colorado Colorado Springs	5,557		3,508		694		486		744		114		11	
U. Colorado Denver and Anschutz Medical Campus	554,643		348,724		24,563		71,012		50,627		49,479		10,238	
U. Northern Colorado	3,738		1,853		262		1,267		8		348		0	
U.S. Air Force Academy	42,197		33,554		0		7,841		802		0		0	
Private	43,640		24,949		1,254		8,062		1,521		7,158		696	
Colorado C.	2,291		196		290		917		0		888		0	
U. Denver	41,349		24,753		964		7,145		1,521		6,270		696	
Connecticut	1,400,865		760,588		11,807		430,411		84,679		102,139		11,241	
Public	288,915		166,952		6,201		84,969		11,462		13,082		6,249	
Central Connecticut State U.	1,572		901		264		407		0		0		0	
Eastern Connecticut State U.	1,799		177		1		1,621		0		0		0	
Southern Connecticut State U.	5,413		1,026		305		3,649		53		188		192	
U. Connecticut	280,131		164,848		5,631		79,292		11,409		12,894		6,057	
Private	1,111,950		593,636		5,606		345,442		73,217		89,057		4,992	
Connecticut C.	1,598		483		0		1,071		0		44		0	
Fairfield U.	1,210		365		0		255		0		590		0	
Trinity C., Hartford	1,428		1,019		0		353		2		54		0	
U. Hartford	1,436		854		0		568		14		0		0	
U. New Haven	3,843		1,440		473		363		390		1,170		7	
Wesleyan U.	8,300		4,305		31		3,137		97		651		79	
Yale U.	1,094,135		585,170		5,102		339,695		72,714		86,548		4,906	
Delaware	244,321		156,831		11,295		59,559		6,766		4,812		5,058	
Public	244,321		156,831		11,295		59,559		6,766		4,812		5,058	
Delaware State U.	23,876	i	12,689	i	514	i	10,647	i	26	i	0	i	0	i
U. Delaware	220,445		144,142		10,781		48,912		6,740		4,812		5,058	
District of Columbia	684,793		333,185		5,446		192,720		26,548		90,192		36,702	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Public	9,173	7,247	0	1,922	0	0	4
National Defense U.	4,583	4,583	0	0	0	0	0
U. of the District of Columbia	4,590	2,664	0	1,922	0	0	4
Private	675,620	325,938	5,446	190,798	26,548	90,192	36,698
American U.	71,839	16,123	622	43,461	513	10,486	634
Catholic U. of America	25,221	22,503	118	1,429	411	760	0
Gallaudet U.	4,599	1,841	0	2,414	0	326	18
George Washington U.	270,369	157,533	1,740	66,453	4,596	28,958	11,089
Georgetown U.	258,659	98,682	1,613	66,181	18,307	48,919	24,957
Howard U.	44,933	29,256	1,353	10,860	2,721	743	0
Florida	2,722,627	1,278,252	252,254	889,925	114,269	130,730	57,197
Public	2,279,125	1,021,075	236,704	799,032	74,638	94,265	53,411
Florida A&M U.	41,319	33,136	2,561	4,997	550	75	0
Florida Atlantic U.	53,845	23,695	4,581	14,711	2,729	5,863	2,266
Florida Gulf Coast U.	6,671	5,304	814	103	104	346	0
Florida International U.	236,842	103,366	18,582	104,836	2,271	7,059	728
Florida Polytechnic U.	1,091	252	289	479	46	5	20
Florida State U.	350,430	162,296	4,391	164,970	2,177	8,946	7,650
U. Central Florida	239,343	114,575	14,653	86,095	12,418	6,049	5,553
U. Florida	942,223	397,202	169,194	253,646	37,922	50,483	33,776
U. North Florida	13,573	4,568	1,531	7,209	153	112	0
U. South Florida, Saint Petersburg	18,243	5,344	4,603	8,119	2	160	15
U. South Florida, Sarasota-Manatee	2,150	10	0	2,096	0	44	0
U. South Florida, Tampa	333,344	158,958	14,824	126,104	15,525	14,530	3,403
U. West Florida	40,051	12,369	681	25,667	741	593	0
Private	443,502	257,177	15,550	90,893	39,631	36,465	3,786
Embry-Riddle Aeronautical U.	17,786	11,542	29	1,183	3,151	460	1,421
Florida Institute of Technology	18,271	10,999	2,028	3,191	922	390	741
Nova Southeastern U.	26,035	10,452	2,652	10,764	1,309	610	248
U. Miami	381,410	224,184	10,841	75,755	34,249	35,005	1,376
Georgia	2,782,005	1,626,712	171,829	702,890	140,929	122,147	17,498
Public	1,878,257	1,107,719	170,463	453,769	81,057	52,755	12,494
Albany State U.	1,060	836	116	0	108	0	0
Augusta U.	103,961	55,797	504	40,408	3,018	4,211	23
Columbus State U.	261	93	0	105	58	5	0
Fort Valley State U.	4,921	4,806	0	115	0	0	0
Georgia Institute of Technology	1,048,988	790,518	107,480	71,373	63,120	14,200	2,297
Georgia Southern U.	12,166	1,790	625	5,068	4,075	608	0
Georgia State U.	202,451	78,199	6,910	101,059	575	15,022	686
Kennesaw State U.	17,954	1,983	121	14,582	606	526	136
Savannah State U.	1,804	1,804	0	0	0	0	0
U. Georgia	482,786	171,351	54,667	220,201	9,490	17,725	9,352
U. North Georgia	1,905	542	40	858	7	458	0
Private	903,748	518,993	1,366	249,121	59,872	69,392	5,004
Clark Atlanta U.	8,452	5,324	0	3,016	47	65	0
Emory U.	808,792	452,636	1,031	230,877	54,236	67,600	2,412
Mercer U.	49,116	31,572	62	9,247	5,452	191	2,592

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Morehouse C.	4,825	4,825	0	0	0	0	0
Morehouse School of Medicine	29,813	22,500	273	5,504	0	1,536	0
Spelman C.	2,750	2,136	0	477	137	0	0
Hawaii	298,285	184,034	19,383	77,557	2,802	13,022	1,487
Public	296,489	182,335	19,331	77,530	2,802	13,018	1,473
U. Hawaii, Hilo	6,992	5,274	102	1,160	179	209	68
U. Hawaii, Manoa	275,929	163,694	19,229	76,169	2,623	12,809	1,405
U. Hawaii, system office	13,568	13,367	0	201	0	0	0
Private	1,796	1,699	52	27	0	4	14
Hawaii Pacific U.	1,796	1,699	52	27	0	4	14
Idaho	170,595	86,213	40,139	35,938	3,206	1,998	3,101
Public	170,595	86,213	40,139	35,938	3,206	1,998	3,101
Boise State U.	43,307	26,914	2,265	12,867	378	617	266
Idaho State U.	14,478	7,849	2,365	3,535	247	410	72
U. Idaho	112,810	51,450	35,509	19,536	2,581	971	2,763
Illinois	2,764,954	1,665,534	38,947	696,506	168,728	155,815	39,424
Public	1,226,778	648,629	36,433	395,121	59,296	60,311	26,988
Illinois State U.	32,260	8,719	1,250	21,288	122	871	10
Northeastern Illinois U.	2,018	2,018	0	0	0	0	0
Northern Illinois U.	25,420	8,030	1,032	15,823	221	254	60
Southern Illinois U., Carbondale	41,617	12,735	467	21,176	6,777	462	0
Southern Illinois U., Edwardsville	18,273	3,467	90	13,531	989	168	28
U. Illinois, Chicago	412,147	223,030	6,772	135,744	14,766	24,288	7,547
U. Illinois, Springfield	3,406	976	1,352	996	26	56	0
U. Illinois, Urbana-Champaign	689,176	387,853	25,302	186,309	36,178	34,212	19,322
Western Illinois U.	2,461	1,801	168	254	217	0	21
Private	1,538,176	1,016,905	2,514	301,385	109,432	95,504	12,436
Bradley U.	851	235	86	207	301	0	22
DePaul U.	6,557	5,156	0	925	0	450	26
Erikson Institute	1,992	1,006	0	96	0	890	0
Illinois Institute of Technology	29,122	24,244	36	1,739	1,562	948	593
Loyola U., Chicago	39,365	24,018	164	7,961	3,384	2,860	978
Midwestern U.	10,479	936	50	8,776	481	236	0
Northwestern U.	874,671	531,654	12	233,695	52,440	48,087	8,783
Rosalind Franklin U. of Medicine and Science	14,601	8,504	56	4,474	958	609	0
Rush U.	94,438	65,343	1,886	8,712	12,732	5,765	0
Toyota Technological Institute, Chicago	5,887	3,038	0	1,513	1,230	106	0
U. Chicago	458,891	352,447	224	32,978	36,343	34,865	2,034
Wheaton C., Wheaton	1,322	324	0	309	1	688	0
Indiana	1,733,623	756,064	46,570	626,632	111,896	128,912	63,549
Public	1,506,088	652,034	46,040	546,388	105,684	110,349	45,593
Ball State U.	9,429	2,397	453	5,703	605	271	0
Indiana State U.	1,471	949	241	204	31	46	0
Indiana U., Bloomington	728,554	343,876	3,434	281,536	26,506	71,676	1,526
Indiana U.-Purdue U., Indianapolis	71,387	31,622	1,467	28,006	2,214	7,950	128
Purdue U., Fort Wayne	2,264	589	408	713	70	54	430

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Purdue U., Northwest	5,839	1,996	786	1,549	759	147	602
Purdue U., West Lafayette	687,144	270,605	39,251	228,677	75,499	30,205	42,907
Private	227,535	104,030	530	80,244	6,212	18,563	17,956
U. Notre Dame	227,535	104,030	530	80,244	6,212	18,563	17,956
Iowa	917,407	429,925	42,796	360,325	46,229	32,283	5,849
Public	904,660	427,432	42,541	351,429	46,226	31,728	5,304
Iowa State U.	363,107	165,912	36,709	125,420	18,149	11,626	5,291
U. Iowa	538,583	259,639	5,489	225,307	28,073	20,062	13
U. Northern Iowa	2,970	1,881	343	702	4	40	0
Private	12,747	2,493	255	8,896	3	555	545
Des Moines U.	5,021	449	255	4,068	3	246	0
Grinnell C.	5,826	644	0	4,328	0	309	545
Palmer C. of Chiropractic, Davenport	1,900	1,400	0	500	0	0	0
Kansas	739,872	318,888	72,227	203,583	111,333	29,458	4,383
Public	739,872	318,888	72,227	203,583	111,333	29,458	4,383
Fort Hays State U.	1,172	764	24	168	209	7	0
Kansas State U.	213,900	79,100	42,624	76,929	6,594	7,057	1,596
Pittsburg State U.	2,173	477	570	NA	1,085	41	0
U. Kansas	368,811	185,007	22,364	116,482	22,089	22,243	626
Wichita State U.	153,816	53,540	6,645	10,004	81,356	110	2,161
Kentucky	641,301	302,255	49,722	201,630	21,919	19,738	46,037
Public	641,301	302,255	49,722	201,630	21,919	19,738	46,037
Eastern Kentucky U.	1,010	554	66	309	4	77	0
Kentucky State U.	7,963	4,456	3,294	0	142	71	0
Morehead State U.	1,883	1,674	50	133	0	26	0
Murray State U.	3,019	1,929	37	1,007	46	0	0
Northern Kentucky U.	2,693	1,462	86	854	5	286	0
U. Kentucky	417,674	200,664	35,346	130,570	9,985	10,677	30,432
U. Louisville	198,818	88,251	10,365	64,507	11,584	8,518	15,593
Western Kentucky U.	8,241	3,265	478	4,250	153	83	12
Louisiana	798,373	309,352	96,798	227,320	99,014	40,441	25,448
Public	580,033	191,182	90,833	174,093	93,425	20,062	10,438
Grambling State U.	2,427	787	560	1,080	0	0	0
Louisiana State U., Baton Rouge	286,733	87,895	72,026	99,412	10,461	9,391	7,548
Louisiana State U., Health Sciences Center, New Orleans	43,419	31,381	196	5,881	2,109	3,290	562
Louisiana State U., Health Sciences Center, Shreveport	25,321	11,452	58	9,902	340	3,569	0
Louisiana Tech U.	26,585	7,167	2,606	14,576	903	0	1,333
Northwestern State U. Louisiana	1,940	598	1,105	237	0	0	0
Southeastern Louisiana U.	2,258	884	213	913	61	187	0
Southern U. and A&M C., Agricultural Research and Extension Center	4,475	2,085	2,338	52	0	0	0
Southern U. and A&M C., Baton Rouge	3,849	2,996	23	441	389	0	0
U. Louisiana, Lafayette	164,070	40,044	10,812	32,175	78,591	2,448	0
U. Louisiana, Monroe	2,362	2,025	210	69	22	36	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
U. New Orleans	16,594	3,868	686	9,355	549	1,141	995
Private	218,340	118,170	5,965	53,227	5,589	20,379	15,010
Dillard U.	2,523	1,200	87	771	0	98	367
Tulane U.	204,430	107,290	5,103	51,577	5,589	20,228	14,643
Xavier U. Louisiana	11,387	9,680	775	879	0	53	0
Maine	151,263	66,227	21,534	54,140	3,032	4,127	2,203
Public	137,819	56,607	21,500	51,135	3,005	3,815	1,757
U. Maine	132,184	54,376	18,487	50,890	3,005	3,685	1,741
U. Southern Maine	5,635	2,231	3,013	245	0	130	16
Private	13,444	9,620	34	3,005	27	312	446
Bates C.	2,303	1,885	0	212	0	104	102
Bowdoin C.	2,719	1,862	33	707	1	116	0
Colby C.	1,536	809	0	388	0	0	339
U. New England	6,886	5,064	1	1,698	26	92	5
Maryland	4,745,030	3,734,526	87,487	550,090	136,913	225,317	10,697
Public	1,634,536	1,052,116	81,780	392,863	31,007	69,589	7,181
Bowie State U.	1,967	1,967	0	0	0	0	0
Morgan State U.	17,193	14,101	2,263	336	226	267	0
Salisbury U.	9,496	2,413	3,638	3,359	11	75	0
Towson U.	3,612	2,010	126	1,185	15	156	120
U. Baltimore	15,054	11,748	2,218	NA	6	864	218
U. Maryland[a]	1,103,062	689,125	39,195	282,188	28,881	57,662	6,011
U. Maryland Center for Environmental Science	54,560	15,498	27,148	9,503	589	1,563	259
U. Maryland, Baltimore County	83,867	59,391	7,192	13,493	1,271	1,947	573
U. Maryland, Eastern Shore	8,092	8,084	0	0	8	0	0
U.S. Naval Academy	13,123	12,577	0	186	0	360	0
Uniformed Services U. of the Health Sciences	324,510	235,202	0	82,613	0	6,695	0
Private	3,110,494	2,682,410	5,707	157,227	105,906	155,728	3,516
Johns Hopkins U.[b]	3,110,494	2,682,410	5,707	157,227	105,906	155,728	3,516
Massachusetts	4,361,466	2,413,765	42,451	996,243	329,957	426,280	152,770
Public	689,298	385,160	26,162	199,097	29,787	38,302	10,790
Framingham State U.	2,317	179	0	0	78	2,060	0
U. Massachusetts, Amherst	219,389	116,170	7,779	75,307	7,702	8,880	3,551
U. Massachusetts, Boston	64,219	27,575	3,325	25,435	2,075	5,618	191
U. Massachusetts, central office	5,225	488	3,533	285	242	602	75
U. Massachusetts, Dartmouth	26,836	6,506	1,644	16,761	1,354	307	264
U. Massachusetts, Lowell	92,216	41,304	8,471	35,980	3,263	1,300	1,898
U. Massachusetts, Medical School	279,096	192,938	1,410	45,329	15,073	19,535	4,811
Private	3,672,168	2,028,605	16,289	797,146	300,170	387,978	141,980
Amherst C.	4,906	1,775	0	2,230	0	10	891
Babson C.	2,352	14	0	1,007	358	683	290
Boston C.	63,063	31,038	1,801	13,420	872	15,173	759
Boston U.	583,267	339,172	517	157,935	22,430	40,325	22,888
Brandeis U.	63,201	41,440	1,028	10,612	294	8,699	1,128
Clark U.	10,277	3,350	93	5,338	12	1,456	28
Emerson C.	919	84	171	279	27	202	156

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Franklin W. Olin C. of Engineering	1,404		293		0		530		27		499		55	
Harvard U.	1,239,983		605,603		2,351		391,127		49,561		171,566		19,775	
Massachusetts Institute of Technology	987,968		488,741		2,104		119,003		200,722		99,438		77,960	
Merrimack C.	503		306		0		72		0		125		0	
MGH Institute of Health Professions	3,549		3,014		0		20		0		515		0	
Mount Holyoke C.	2,016		1,442		0		227		0		347		0	
New England C. of Optometry	1,150		785		0		166		193		6		0	
Northeastern U.	200,068		136,273		3,767		41,810		9,060		8,568		590	
Smith C.	4,685		2,650		0		1,401		68		566		0	
Stonehill C.	833		674		0		159		0		0		0	
Suffolk U.	2,106		844		0		1,010		0		252		0	
Tufts U.	216,241		148,320		1,634		23,231		10,162		28,558		4,336	
Wellesley C.	8,088		4,441		49		NA		158		2,497		943	
Williams C.	4,924	i	1,086	i	0	i	1,663	i	0	i	137	i	2,038	i
Woods Hole Oceanographic Institution	227,573		191,186		1,653		16,741		2,223		6,872		8,898	
Worcester Polytechnic Institute	43,092		26,074		1,121		9,165		4,003		1,484		1,245	
Michigan	2,867,807		1,425,181		62,989		1,080,879		127,747		128,955		42,056	
Public	2,792,953		1,398,866		62,775		1,047,828		126,430		124,139		32,915	
Central Michigan U.	17,448		7,450		70		8,581		57		962		328	
Eastern Michigan U.	9,088		2,598		63		5,950		61		350		66	
Grand Valley State U.	6,792		1,831		323		3,475		24		641		498	
Michigan State U.	713,197		329,748		47,310		290,251		13,141		18,986		13,761	
Michigan Technological U.	77,927		36,172		456		31,849		6,661		220		2,569	
Northern Michigan U.	1,523		446		0		876		15		10		176	
Oakland U.	12,949		5,068		57		6,215		313		835		461	
Saginaw Valley State U.	2,343		1,809		0		398		5		115		16	
U. Michigan, Ann Arbor	1,673,862		884,880		2,074		607,120		96,044		75,131		8,613	
U. Michigan, Dearborn	8,777		2,264		16		3,984		2,262		224		27	
U. Michigan, Flint	1,247		276		3		588		366		8		6	
Wayne State U.	243,259		113,137		11,699		81,190		5,703		26,350		5,180	
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541		13,187		704		7,351		1,778		307		1,214	
Private	74,854		26,315		214		33,051		1,317		4,816		9,141	
Albion C.	1,132		272		0		860		0		0		0	
Andrews U.	1,033		263		2		565		0		203		0	
Calvin U.	1,497	i	888	i	30	i	5	i	92	i	176	i	306	i
Hope C.	3,822		1,155		0		1,492		0		1,119		56	
Kettering U.	2,081		568		8		832		591		63		19	
Lawrence Technological U.	1,521		405		174		64		212		666		0	
U. Detroit Mercy	4,786		4,226		0		524		13		23		0	
Van Andel Research Institute	58,982		18,538		0		28,709		409		2,566		8,760	
Minnesota	1,086,730		524,349		85,995		354,291		50,788		44,828		26,479	
Public	1,075,333		521,743		85,682		347,836		50,238		43,466		26,368	
Minnesota State U., Mankato	2,754		525		121		1,071		0		885		152	
St. Cloud State U.	3,056		459		366		1,358		536		337		0	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
U. Minnesota, Duluth	26,137		6,454		6,935		11,746		845		81		76	
U. Minnesota, Morris	1,004		213		138		647		0		6		0	
U. Minnesota, Twin Cities	1,042,382		514,092		78,122		333,014		48,857		42,157		26,140	
Private	11,397		2,606		313		6,455		550		1,362		111	
C. of Saint Benedict	1,069	i	43	i	0	i	1,026	i	0	i	0	i	0	i
Carleton C.	3,732		1,236		17		2,052		0		427		0	
Macalester C.	1,755		647		84		794		0		230		0	
Saint John's U., Collegeville	1,130	i	0	i	0	i	1,130	i	0	i	0	i	0	i
St. Olaf C.	1,032		230		0		652		0		150		0	
U. of St. Thomas (MN)	2,679		450		212		801		550		555		111	
Mississippi	506,660		268,634		112,409		98,812		10,357		14,761		1,687	
Public	504,558		266,532		112,409		98,812		10,357		14,761		1,687	
Alcorn State U.	13,710		7,023		4,519		2,110		56		2		0	
Jackson State U.	15,081		13,662		0		1,226		0		183		10	
Mississippi State U.	280,485		120,616		90,345		55,647		3,477		9,055		1,345	
U. Mississippi	122,960		82,361		5,171		28,635		2,425		4,104		264	
U. Southern Mississippi	72,322		42,870		12,374		11,194		4,399		1,417		68	
Private	2,102		2,102		0		0		0		0		0	
Tougaloo C.	2,102		2,102		0		0		0		0		0	
Missouri	1,444,375		821,530		29,650		351,102		118,297		112,041		11,755	
Public	449,797		223,462		27,558		156,983		19,523		12,291		9,980	
Lincoln U., Jefferson City	5,777		3,636		2,141		NA		0		0		0	
Missouri State U.	13,131		12,310		37		665		115		4		0	
Missouri U. of Science and Technology	47,001		22,860		230		16,536		4,604		575		2,196	
U. Missouri, Columbia	332,180		156,190		25,000		123,624		13,749		8,132		5,485	
U. Missouri, Kansas City	36,356		22,320		110		10,283		964		1,054		1,625	
U. Missouri, Saint Louis	15,352		6,146		40		5,875		91		2,526		674	
Private	994,578		598,068		2,092		194,119		98,774		99,750		1,775	
Saint Louis U.	69,528		34,419		1,202		21,359		4,362		7,975		211	
U. of Health Sciences and Pharmacy in St. Louis	4,835		3,767		0		547		431		90		0	
Washington U., Saint Louis	920,215		559,882		890		172,213		93,981		91,685		1,564	
Montana	290,297		160,950		25,204		91,295		3,758		6,608		2,482	
Public	290,297		160,950		25,204		91,295		3,758		6,608		2,482	
Montana State U., Bozeman	166,285		93,759		18,088		45,253		2,392		4,918		1,875	
Montana Technological U.	12,987		4,322		6,090		1,757		810		0		8	
Salish Kootenai C.	807		802		0		0		0		5		0	
U. Montana, Missoula	110,218		62,067		1,026		44,285		556		1,685		599	
Nebraska	586,777		255,357		71,276		180,551		30,607		23,254		25,732	
Public	565,315		246,816		68,347		173,558		29,400		22,420		24,774	
U. Nebraska, central administration	23,672		23,104		0		568		0		0		0	
U. Nebraska, Kearney	2,640		1,259		330		961		39		17		34	
U. Nebraska, Lincoln	320,463		107,299		54,240		125,648		19,215		5,451		8,610	
U. Nebraska, Medical Center	202,406		105,158		11,932		43,265		10,072		16,011		15,968	
U. Nebraska, Omaha	16,134		9,996		1,845		3,116		74		941		162	
Private	21,462		8,541		2,929		6,993		1,207		834		958	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Creighton U.	20,339		7,583		2,929		6,845		1,207		817		958	
Doane U.	1,123	i	958	i	0	i	148	i	0	i	17	i	0	i
Nevada	296,470		109,892		12,024		152,046		5,587		6,545		10,376	
Public	292,090		109,836		12,024		147,947		5,371		6,536		10,376	
Desert Research Institute	26,428		15,791		997		4,345		415		3,819		1,061	
U. Nevada, Las Vegas	105,872		29,252		2,493		69,282		1,149		655		3,041	
U. Nevada, Reno	159,790		64,793		8,534		74,320		3,807		2,062		6,274	
Private	4,380		56		0		4,099		216		9		0	
Roseman U. of Health Sciences	4,380		56		0		4,099		216		9		0	
New Hampshire	484,313		243,635		5,945		188,555		12,789		25,644		7,745	
Public	157,964		101,416		4,695		38,458		8,430		3,934		1,031	
Keene State C.	1,063		1,043		0		19		0		1		0	
U. New Hampshire	156,901		100,373		4,695		38,439		8,430		3,933		1,031	
Private	326,349		142,219		1,250		150,097		4,359		21,710		6,714	
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349		142,219		1,250		150,097		4,359		21,710		6,714	
New Jersey	1,385,864		679,242		103,899		301,877		86,749		130,742		83,355	
Public	937,168		439,687		98,958		215,287		65,231		73,424		44,581	
C. New Jersey	1,464		951		32		153		49		279		0	
Kean U.	2,201		775		447		885		29		26		39	
Montclair State U.	17,636		3,782		724		10,659		86		2,363		22	
New Jersey City U.	262		223		0		39		0		0		0	
New Jersey Institute of Technology	155,715		85,746		2,987		53,611		3,013		5,719		4,639	
Rowan U.	26,018		15,551		4,401		3,737		818		1,511		0	
Rutgers, State U. New Jersey, Camden	3,950		1,952		91		1,136		166		603		2	
Rutgers, State U. New Jersey, New Brunswick	688,077		311,743		86,581		130,582		60,291		60,621		38,259	
Rutgers, State U. New Jersey, Newark	28,006		16,196		1,460		5,902		778		2,050		1,620	
Stockton U.	4,236		872		2,235		1,008		0		121		0	
William Paterson U.	9,603		1,896		0		7,575		1		131		0	
Private	448,696		239,555		4,941		86,590		21,518		57,318		38,774	
Monmouth U.	1,729		110		1,149		70		20		309		71	
Princeton U.	396,502		203,259		300		78,989		19,932		55,398		38,624	
Seton Hall U.	5,718		2,725		1,993		88		210		702		0	
Stevens Institute of Technology	44,747		33,461		1,499		7,443		1,356		909		79	
New Mexico	376,331		246,554		27,322		75,246		6,258		13,167		7,784	
Public	376,331		246,554		27,322		75,246		6,258		13,167		7,784	
New Mexico Highlands U.	1,090		1,034		0		0		0		56		0	
New Mexico Institute of Mining and Technology	24,591		22,922		179		345		881		220		44	
New Mexico State U.	107,275		60,971		21,097		13,809		1,644		3,827		5,927	
U. New Mexico	243,375		161,627		6,046		61,092		3,733		9,064		1,813	
New York	7,156,316		3,732,130		405,335		1,674,568		509,662		530,030		304,591	
Public	1,592,160		649,773		245,062		433,710		187,715		41,407		34,493	
CUNY, Advanced Science Research Center	11,373		9,208		169		1,308		158		198		332	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
CUNY, Baruch C.	2,396	1,470	14	434	0	367	111
CUNY, Brooklyn C.	7,074	4,651	198	1,489	72	645	19
CUNY, C. Staten Island	3,682	2,295	603	483	2	84	215
CUNY, City C.	45,632	30,106	4,193	8,968	1,068	1,011	286
CUNY, Graduate Center	4,787	2,561	78	169	0	825	1,154
CUNY, Graduate School of Public Health and Health Policy	12,177	8,722	214	1,871	416	951	3
CUNY, Hunter C.	38,345	26,025	2,622	8,847	229	331	291
CUNY, John Jay C. of Criminal Justice	13,939	5,297	1,014	2,968	2,159	1,449	1,052
CUNY, Lehman C.	4,154	3,197	0	500	82	44	331
CUNY, Medgar Evers C.	882	588	0	245	0	48	1
CUNY, New York City C. of Technology	2,130	1,585	0	136	404	5	0
CUNY, Queens C.	16,470	12,726	1,054	2,304	43	315	28
CUNY, system office	1,704	884	164	163	26	105	362
CUNY, York C.	1,691	1,513	0	156	0	22	0
SUNY, Binghamton U.	117,870	24,564	4,957	82,764	3,588	1,258	739
SUNY, Buffalo State	2,253	1,241	619	293	35	49	16
SUNY, C. Brockport	1,719	781	343	574	20	1	0
SUNY, C. of Environmental Science and Forestry	29,296	7,809	13,768	6,258	663	552	246
SUNY, C. of Optometry	3,477	1,688	0	524	1,233	10	22
SUNY, C. Plattsburgh	1,452	950	37	353	0	9	103
SUNY, Downstate Medical Center	33,204	26,454	21	5,396	305	696	332
SUNY, Geneseo	1,642	950	12	675	0	5	0
SUNY, Oswego	1,534	492	61	945	8	15	13
SUNY, Polytechnic Institute	355,651	27,998	169,352	14,251	139,125	588	4,337
SUNY, Stony Brook U.	263,470	146,478	13,795	87,367	5,307	8,287	2,236
SUNY, U. Albany	138,088	67,039	5,201	61,302	705	1,744	2,097
SUNY, U. Buffalo	422,038	200,155	25,016	131,323	29,881	19,164	16,499
SUNY, Upstate Medical U.	41,557	23,940	1,557	9,460	2,141	2,438	2,021
U.S. Military Academy	12,473	8,406	0	2,184	45	191	1,647
Private	5,564,156	3,082,357	160,273	1,240,858	321,947	488,623	270,098
Albany C. of Pharmacy and Health Sciences	3,765	1,938	0	822	841	137	27
Albany Medical C.	23,510	12,940	0	4,069	3,954	1,003	1,544
Albert Einstein C. of Medicine	288,654	204,635	3,150	65,723	4,286	10,860	0
Alfred U.	2,780	947	857	662	314	0	0
Barnard C.	3,748	2,800	0	467	60	421	0
Clarkson U.	15,104	7,095	1,394	4,425	1,483	490	217
Cold Spring Harbor Laboratory	115,198	62,215	32	32,295	1,222	19,434	0
Colgate U.	2,913	918	0	1,768	12	215	0
Columbia U. in the City of New York	1,032,909	762,289	7,250	78,278	77,105	105,442	2,545
Cornell U.	1,190,063	562,021	92,178	232,628	56,706	119,570	126,960
Fordham U.	20,456	3,831	333	14,154	58	1,118	962
Hamilton C.	1,869	144	0	1,270	0	397	58
Hobart and William Smith Colleges	2,114	1,072	436	384	0	85	137

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Hofstra U.	1,445	997	231	96	3	64	54
Icahn School of Medicine at Mount Sinai	747,014	480,452	8,270	135,617	61,137	53,691	7,847
Ithaca C.	1,199	981	0	170	0	13	35
Long Island U.	13,997	1,349	0	12,135	234	238	41
Manhattan C.	1,307	398	174	503	232	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,737	342	0	3,362	0	33	0
New School	13,186	1,050	142	3,503	144	7,022	1,325
New York Institute of Technology	3,580	1,542	153	1,592	0	293	0
New York Medical C.	20,137	12,106	1,319	243	4,039	1,812	618
New York U.	947,293	448,850	22,203	222,650	51,010	85,710	116,870
Niagara U.	1,124	24	258	352	0	490	0
Pace U.	4,272	2,997	0	1,103	7	147	18
Rensselaer Polytechnic Institute	107,623	52,150	4,959	28,841	15,594	6,079	0
Rochester Institute of Technology	57,777	28,092	9,210	15,970	2,392	1,192	921
Rockefeller U.	356,217	86,280	533	230,148	5,110	33,853	293
Skidmore C.	2,412	1,827	0	441	0	144	0
St. Bonaventure U.	585	265	0	136	8	12	164
St. John's U., New York	3,282	1,805	0	789	147	374	167
Syracuse U.	149,652	31,861	4,812	97,654	4,516	10,673	136
Teachers C., Columbia U.	22,630	7,614	265	NA	1,038	10,766	2,947
U. Rochester	397,211	296,241	2,110	46,412	30,271	16,366	5,811
Union C., Schenectady	1,062	462	4	483	24	58	31
Vassar C.	1,568	1,055	0	306	0	182	25
Yeshiva U.	2,763	772	0	1,407	0	239	345
North Carolina	3,385,735	1,939,599	163,691	684,547	329,220	214,035	54,643
Public	1,937,751	1,061,510	145,260	506,065	110,253	93,359	21,304
Appalachian State U.	4,894	1,469	199	2,568	112	485	61
East Carolina U.	57,820	20,168	620	28,538	3,363	5,131	0
Elizabeth City State U.	1,473	1,455	11	NA	0	0	7
Fayetteville State U.	2,797	1,008	421	1,185	123	60	0
North Carolina Agricultural and Technical State U.	36,151	22,338	369	12,766	73	311	294
North Carolina Central U.	15,833	12,787	116	NA	137	1,194	1,599
North Carolina State U.	546,290	232,110	123,750	131,677	53,302	4,750	701
U. North Carolina, Asheville	4,789	2,405	349	435	2	1,598	0
U. North Carolina, Chapel Hill	1,159,725	706,145	8,129	301,817	49,974	76,679	16,981
U. North Carolina, Charlotte	50,050	27,618	1,176	18,128	2,133	908	87
U. North Carolina, general administration	3,942	572	3,370	0	0	0	0
U. North Carolina, Greensboro	28,966	20,447	452	6,039	344	593	1,091
U. North Carolina, Wilmington	16,544	6,783	6,013	2,433	569	671	75
Western Carolina U.	2,696	1,707	228	479	121	161	0
Winston-Salem State U.	5,781	4,498	57	NA	0	818	408
Private	1,447,984	878,089	18,431	178,482	218,967	120,676	33,339
Davidson C.	2,263	1,411	0	413	10	408	21

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Duke U.	1,196,638		707,746		938		151,876		205,719		104,685		25,674	
Elon U.	1,968		106		0		1,828		0		34		0	
Johnson C. Smith U.	2,472		2,230		132		0		10		100		0	
Wake Forest U.	244,643		166,596		17,361		24,365		13,228		15,449		7,644	
North Dakota	267,308		75,767		64,606		105,161		13,284		2,113		6,377	
Public	267,308		75,767		64,606		105,161		13,284		2,113		6,377	
North Dakota State U.	155,645		31,614		50,334		64,673		1,865		1,074		6,085	
U. North Dakota	111,663		44,153		14,272		40,488		11,419		1,039		292	
Ohio	2,518,803		1,553,657		74,237		498,105		216,432		128,511		47,861	
Public	1,911,016		1,040,039		71,250		445,867		205,682		104,526		43,652	
Air Force Institute of Technology	35,584		22,854		0		12,612		118		0		0	
Bowling Green State U.	18,729		6,397		1,114		10,378		8		767		65	
Central State U.	6,107		3,097		1,861		1,149		0		0		0	
Cleveland State U.	78,189		53,756		956		16,601		2,166		4,515		195	
Kent State U.	50,307		15,004		521		32,258		576		1,752		196	
Miami U.	24,489		10,473		1,446		10,959		957		532		122	
Northeast Ohio Medical U.	15,758		10,684		51		3,655		0		1,368		0	
Ohio State U.	968,260		539,359		50,614		151,106		150,235		48,000		28,946	
Ohio U.	51,914		15,543		1,398		28,659		4,349		1,452		513	
U. Akron	23,496		10,574		688		6,355		3,898		1,054		927	
U. Cincinnati	530,138		285,899		5,867		144,949		38,587		42,326		12,510	
U. Toledo	54,100		27,770		1,254		18,793		4,075		2,130		78	
Wright State U.	49,825		35,321		5,352		7,833		606		613		100	
Youngstown State U.	4,120		3,308		128		560		107		17		0	
Private	607,787		513,618		2,987		52,238		10,750		23,985		4,209	
C. Wooster	1,076		283		0		703		0		90		0	
Case Western Reserve U.	439,778		357,589		805		48,786		5,185		23,274		4,139	
Heidelberg U.	1,125		188		824		48		53		12		0	
Kenyon C.	908		714		0		146		0		48		0	
Oberlin C.	1,182		743		0		360		73		6		0	
U. Dayton	163,718		154,101		1,358		2,195		5,439		555		70	
Oklahoma	604,114		243,317		61,388		243,433		37,542		13,578		4,856	
Public	585,327		238,620		60,668		240,329		27,810		13,151		4,749	
Langston U.	14,409		9,004		4		5,374		27		0		0	
Oklahoma State U., Center for Health Sciences	8,378		2,618		147		5,486		92		35		0	
Oklahoma State U., Stillwater	187,060		39,873		22,850		111,227		9,807		2,990		313	
U. Central Oklahoma	5,788	i	1,444	i	624	i	3,646	i	71	i	3	i	0	i
U. Oklahoma, Norman and Health Science Center	362,209		183,728		35,983		111,660		17,698		9,232		3,908	
U. Oklahoma, Tulsa	7,483		1,953		1,060		2,936		115		891		528	
Private	18,787		4,697		720		3,104		9,732		427		107	
U. Tulsa	18,787		4,697		720		3,104		9,732		427		107	
Oregon	894,789		608,968		57,580		110,486		49,196		51,110		17,449	
Public	877,468		601,985		57,257		103,000		48,589		49,327		17,310	
Oregon Health and Science U.	446,890		321,572		334		44,413		38,692		41,520		359	
Oregon Institute of Technology	4,267		326		2,119		561		976		285		0	
Oregon State U.	268,385		167,494		49,880		25,759		7,387		2,499		15,366	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Portland State U.	43,667		31,315		4,178		4,680		1,321		1,637		536	
U. Oregon	114,259		81,278		746		27,587		213		3,386		1,049	
Private	17,321		6,983		323		7,486		607		1,783		139	
Lewis and Clark C.	3,350		1,268		0		1,527		0		555		0	
National U. of Natural Medicine	1,428		912		0		333		160		0		23	
Pacific U.	5,842		2,596		289		1,961		447		549		0	
Reed C.	5,155		1,806		33		2,897		0		303		116	
Willamette U.	1,546		401		1		768		0		376		0	
Pennsylvania	4,820,355		2,631,476		104,372		1,384,506		317,561		293,798		88,642	
Public	2,413,716		1,485,830		67,635		571,179		77,449		148,903		62,720	
Indiana U. Pennsylvania	6,531		1,309		147		4,647		62		339		27	
Pennsylvania State U., Behrend	1,743		543		7		0		718		475		0	
Pennsylvania State U., Harrisburg	1,866		451		67		1,277		25		46		0	
Pennsylvania State U., University Park and Hershey Medical Center	991,923		638,930		47,196		211,889		29,131		63,664		1,113	
Temple U.	299,707		154,600		8,556		93,385		17,721		18,264		7,181	
U. Pittsburgh, Pittsburgh	1,105,532		689,273		11,600		254,704		29,764		65,940		54,251	
West Chester U. Pennsylvania	6,414		724		62		5,277		28		175		148	
Private	2,406,639		1,145,646		36,737		813,327		240,112		144,895		25,922	
Bryn Mawr C.	11,575		1,531		0		9,742		27		275		0	
Bucknell U.	5,339	i	1,693	i	76	i	3,023	i	202	i	335	i	10	i
Carnegie Mellon U.	386,996		217,625		2,735		115,615		36,121		9,210		5,690	
Dickinson C.	929		222		87		325		49		29		217	
Drexel U.	143,123		82,576		4,650		38,742		3,203		7,513		6,439	
Duquesne U.	17,485		4,981		798		9,566		267		1,873		0	
Franklin and Marshall C.	3,623		1,202		204		1,747		231		73		166	
Gettysburg C.	913		320		0		144		46		227		176	
Haverford C.	4,473		2,680		0		1,168		0		163		462	
La Salle U.	818		14		0		804		0		0		0	
Lafayette C.	1,390		755		14		522		1		53		45	
Lehigh U.	38,064		26,816		1,888		8,181		758		378		43	
Mercyhurst U.	1,850	i	690	i	568	i	592	i	0	i	0	i	0	i
Philadelphia C. of Osteopathic Medicine	3,360		422		0		2,415		0		523		0	
Saint Joseph's U.	3,150		1,047		812		1,084		123		84		0	
Swarthmore C.	3,544		1,041		0		2,278		0		225		0	
Thomas Jefferson U.	171,377		74,676		3,330		53,798		20,915		9,537		9,121	
U. of the Sciences Philadelphia	3,761		1,126		234		1,042		850		509		0	
U. Pennsylvania	1,579,364		721,308		19,955		544,997		176,969		112,832		3,303	
Villanova U.	25,505		4,921		1,386		17,542		350		1,056		250	
Rhode Island	395,730		265,184		14,903		83,884		6,764		18,312		6,683	
Public	126,005		77,314		14,750		26,842		2,892		3,385		822	
Naval War C.	5,944		5,944		0		0		0		0		0	
Rhode Island C.	10,094		4,128		5,448		93		0		425		0	
U. Rhode Island	109,967		67,242		9,302		26,749		2,892		2,960		822	
Private	269,725		187,870		153		57,042		3,872		14,927		5,861	
Brown U.	266,127		185,676		31		56,188		3,634		14,737		5,861	
Providence C.	1,092		913		0		127		0		52		0	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Rhode Island School of Design	975	i	236	i	42	i	426	i	221	i	50	i	0	i
Roger Williams U.	1,531		1,045		80		301		17		88		0	
South Carolina	742,557		349,258		38,938		272,703		42,958		26,418		12,282	
Public	737,897		345,869		38,925		271,604		42,958		26,366		12,175	
C. Charleston	5,728		3,087		275		1,727		7		574		58	
Citadel Military C. South Carolina	1,012		736		0		135		0		11		130	
Clemson U.	228,597		82,203		26,544		94,600		18,120		6,894		236	
Coastal Carolina U.	1,903		1,211		119		61		0		512		0	
Medical U. South Carolina	272,590		153,802		5,666		73,804		20,747		11,011		7,560	
South Carolina State U.	3,796	i	3,796	i	NA		NA		NA		NA		NA	
U. South Carolina, Aiken	2,590		2,328		0		255		0		7		0	
U. South Carolina, Columbia	219,464		97,143		6,028		100,802		4,050		7,250		4,191	
Winthrop U.	2,217		1,563		293		220		34		107		0	
Private	4,660		3,389		13		1,099		0		52		107	
Benedict C.	649		635		3		0		0		11		0	
Claflin U.	1,910		1,907		0		0		0		3		0	
Furman U.	2,101		847		10		1,099		0		38		107	
South Dakota	110,619		51,468		19,465		18,944		2,770		4,568		13,404	
Public	110,619		51,468		19,465		18,944		2,770		4,568		13,404	
Black Hills State U.	1,499		1,287		98		114		0		0		0	
Dakota State U.	4,412		3,957		34		220		192		9		0	
South Dakota School of Mines and Technology	14,490		10,659		1,173		1,574		699		90		295	
South Dakota State U.	60,939		22,531		16,477		3,143		1,879		3,800		13,109	
U. South Dakota	29,279		13,034		1,683		13,893		0		669		0	
Tennessee	1,398,914		765,928		37,265		433,253		83,419		60,108		18,941	
Public	555,337		234,688		34,708		235,189		13,105		22,547		15,100	
Austin Peay State U.	2,833		475		1,329		908		1		106		14	
East Tennessee State U.	13,925		7,329		49		2,416		334		3,407		390	
Middle Tennessee State U.	8,697		3,062		421		4,098		345		771		0	
Tennessee State U.	15,377		8,707		467		6,141		44		18		0	
Tennessee Technological U.	14,085		6,471		4,174		2,858		299		77		206	
U. Memphis	69,463		18,063		7,776		39,192		998		2,914		520	
U. Tennessee, Chattanooga	10,834		3,915		889		5,073		151		331		475	
U. Tennessee, Health Science Center	99,716		48,264		4,503		26,628		3,353		8,902		8,066	
U. Tennessee, Knoxville[c]	320,407		138,402		15,100		147,875		7,580		6,021		5,429	
Private	843,577		531,240		2,557		198,064		70,314		37,561		3,841	
Fisk U.	3,904		3,811		15		0		16		62		0	
Lipscomb U.	1,000	i	557	i	15	i	247	i	66	i	86	i	29	i
Meharry Medical C.	13,870		12,573		0		315		3		979		0	
Vanderbilt U. and Vanderbilt U. Medical Center	824,803		514,299		2,527		197,502		70,229		36,434		3,812	
Texas	6,619,640		2,678,449		911,419		1,821,405		463,739		470,846		273,782	
Public	5,622,586		2,235,033		870,261		1,485,311		424,703		340,034		267,244	
Lamar U.	4,327		2,146		1,309		136		281		455		0	
Midwestern State U.	891		599		36		201		0		55		0	
Prairie View A&M U.	18,723		9,249		4,754		4,309		212		199		0	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Sam Houston State U.	12,437	4,764	198	7,379	3	71	22
Stephen F. Austin State U.	3,672	1,257	1,316	703	32	206	158
Sul Ross State U.	2,068	481	126	119	25	785	532
Tarleton State U.	14,890	4,139	2,779	7,526	334	112	0
Texas A&M International U.	3,067	986	707	647	63	637	27
Texas A&M U., College Station and Health Science Center	1,130,803	517,489	205,190	291,325	35,783	53,539	27,477
Texas A&M U.-Commerce	4,166	1,226	313	2,252	46	205	124
Texas A&M U.-Corpus Christi	32,284	13,349	8,436	4,691	716	2,079	3,013
Texas A&M U.-Kingsville	22,745	9,610	3,576	3,711	692	5,110	46
Texas Southern U.	4,782	2,941	1,048	789	0	4	0
Texas State U.	70,714	26,950	3,850	33,796	792	5,326	0
Texas Tech U.	199,643	31,475	29,341	114,278	11,588	12,653	308
Texas Tech U., Health Sciences Center	44,135	13,043	18,200	8,839	357	1,350	2,346
Texas Tech U., Health Sciences Center, El Paso	10,421	1,703	2,932	5,211	257	318	0
Texas Woman's U.	4,135	1,700	699	1,058	59	619	0
U. Houston	200,428	71,779	33,898	74,188	8,034	9,803	2,726
U. Houston-Clear Lake	1,363	632	513	33	102	83	0
U. Houston-Downtown	2,299	1,392	120	280	0	507	0
U. North Texas, Denton	84,239	13,653	5,524	61,069	1,619	1,550	824
U. North Texas, Health Science Center	47,392	25,917	10,787	7,265	1,463	1,800	160
U. Texas Health Science Center, Houston	273,862	133,624	42,174	44,129	16,479	24,958	12,498
U. Texas Health Science Center, San Antonio	202,572	102,959	21,895	45,061	8,048	24,287	322
U. Texas Health Science Center, Tyler	21,265	7,732	4,022	5,581	252	3,678	0
U. Texas M. D. Anderson Cancer Center	1,051,297	186,488	291,619	209,905	194,528	31,021	137,736
U. Texas Medical Branch	180,595	114,103	7,302	44,544	5,832	8,814	0
U. Texas of the Permian Basin	2,105	757	32	562	0	754	0
U. Texas Rio Grande Valley	56,702	13,093	7,566	27,680	455	7,653	255
U. Texas Southwestern Medical Center	595,939	242,679	66,440	137,027	38,500	53,780	57,513
U. Texas, Arlington	133,793	44,950	19,309	52,902	5,989	8,740	1,903
U. Texas, Austin	797,199	500,409	23,611	147,947	77,789	40,881	6,562
U. Texas, Dallas	132,192	55,983	11,080	36,906	6,496	21,727	0
U. Texas, El Paso	108,628	39,126	20,684	36,075	1,162	1,622	9,959
U. Texas, San Antonio	138,586	34,334	16,210	65,229	5,703	14,490	2,620
U. Texas, Tyler	2,007	774	225	631	207	96	74
West Texas A&M U.	6,220	1,542	2,440	1,327	805	67	39
Private	997,054	443,416	41,158	336,094	39,036	130,812	6,538
Baylor C. of Medicine	685,641	315,101	30,591	222,123	24,991	92,835	0
Baylor U.	39,765	8,851	1,153	21,821	1,395	4,866	1,679
Rice U.	198,681	88,768	7,104	59,140	8,851	30,199	4,619
Southern Methodist U.	43,081	17,752	877	20,640	2,250	1,562	0

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
St. Edward's U.	9,619	7,700	900	925	14	30	50
Texas Christian U.	15,326	3,168	386	10,010	1,493	166	103
Trinity U.	3,472	1,207	17	1,280	0	886	82
U. of the Incarnate Word	1,469	869	130	155	42	268	5
Utah	950,562	581,235	29,015	240,746	49,722	39,936	9,908
Public	911,993	556,603	27,887	234,360	46,449	37,218	9,476
U. Utah	607,061	314,023	4,908	209,608	38,458	36,404	3,660
Utah State U.	304,256	242,156	22,820	24,719	7,961	784	5,816
Weber State U.	676	424	159	33	30	30	0
Private	38,569	24,632	1,128	6,386	3,273	2,718	432
Brigham Young U., Provo	38,569	24,632	1,128	6,386	3,273	2,718	432
Vermont	193,824	100,302	1,115	74,273	3,618	8,606	5,910
Public	191,147	97,981	1,115	73,959	3,617	8,565	5,910
U. Vermont	191,147	97,981	1,115	73,959	3,617	8,565	5,910
Private	2,677	2,321	0	314	1	41	0
Middlebury C.	1,720	1,546	0	132	1	41	0
Saint Michael's C.	957	775	0	182	0	0	0
Virginia	1,921,215	876,257	124,213	637,603	94,102	108,949	80,091
Public	1,897,975	861,899	124,210	629,910	93,636	108,262	80,058
Christopher Newport U.	2,608	1,365	17	903	108	98	117
Eastern Virginia Medical School	20,870	15,748	267	2,280	1,244	1,331	0
George Mason U.	221,006	104,070	3,750	58,447	7,972	38,691	8,076
James Madison U.	10,247	2,609	373	6,365	173	669	58
Norfolk State U.	7,153	7,148	0	5	0	0	0
Old Dominion U.	65,704	30,330	16,403	14,436	990	3,217	328
U. of Mary Washington	1,393	660	20	594	0	90	29
U. Virginia, Charlottesville	652,002	300,348	8,780	212,843	29,798	37,430	62,803
Virginia Commonwealth U.	283,874	152,751	28,217	75,230	12,699	14,977	0
Virginia Polytechnic Institute and State U.	556,341	210,792	61,192	231,204	39,857	6,319	6,977
Virginia State U.	10,014	5,642	1,431	2,061	0	879	1
William & Mary	66,763	30,436	3,760	25,542	795	4,561	1,669
Private	23,240	14,358	3	7,693	466	687	33
Edward Via C. of Osteopathic Medicine	7,475	566	3	6,443	150	313	0
Hampton U.	11,402	11,278	0	124	0	0	0
Liberty U.	1,894	886	0	513	316	146	33
U. Richmond	2,469	1,628	0	613	0	228	0
Washington	1,827,021	1,196,287	80,831	225,111	71,484	210,689	42,619
Public	1,823,201	1,194,025	80,769	224,467	71,483	210,088	42,369
Central Washington U.	2,674	1,701	242	336	102	211	82
Eastern Washington U.	2,282	1,153	931	NA	14	134	50
Northwest Indian C.	2,708 i	2,497 i	0 i	36 i	0 i	175 i	0 i
U. Washington, Bothell	7,107	2,815	42	1,045	129	3,058	18
U. Washington, Seattle	1,456,902	1,024,195	27,087	111,141	57,698	198,220	38,561
U. Washington, Tacoma	3,504	3,075	120	207	0	102	0
Washington State U.	335,201	154,623	51,641	104,722	13,458	7,101	3,656
Western Washington U.	12,823	3,966	706	6,980	82	1,087	2

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Source of funds													
			Federal government		State and local government		Institution funds		Business		Nonprofit organizations		All other sources	
Private	3,820		2,262		62		644		1		601		250	
Seattle U.	2,060		1,303		62		160		1		334		200	
U. Puget Sound	895		401		0		238		0		206		50	
Whitman C.	865		558		0		246		0		61		0	
West Virginia	217,788		95,147		11,631		79,832		6,597		7,389		17,192	
Public	217,788		95,147		11,631		79,832		6,597		7,389		17,192	
Marshall U.	22,250		11,078		1,073		8,169		489		1,441		0	
West Virginia School of Osteopathic Medicine	1,311		419		8		884		0		0		0	
West Virginia State U.	5,775		3,993		1,592		159		31		0		0	
West Virginia U.	188,452		79,657		8,958		70,620		6,077		5,948		17,192	
Wisconsin	1,746,799		808,584		126,081		548,630		60,704		149,911		52,889	
Public	1,442,148		666,001		125,102		451,964		32,129		124,869		42,083	
U. Wisconsin-Eau Claire	1,318		647		292		219		59		99		2	
U. Wisconsin-Green Bay	1,982		890		500		207		41		172		172	
U. Wisconsin-La Crosse	2,795		817		848		434		455		234		7	
U. Wisconsin-Madison	1,363,931		632,558		103,607		435,653		29,589		122,835		39,689	
U. Wisconsin-Milwaukee	61,069		25,354		18,056		13,648		1,508		1,149		1,354	
U. Wisconsin-Oshkosh	1,777	i	1,336	i	0	i	0	i	0	i	0	i	441	i
U. Wisconsin-Platteville	1,104	i	336	i	285	i	189	i	256	i	29	i	9	i
U. Wisconsin-River Falls	1,107		488		408		7		152		0		52	
U. Wisconsin-Stevens Point	4,764		2,193		932		1,044		3		341		251	
U. Wisconsin-Superior	2,301		1,382		174		563		66		10		106	
Private	304,651		142,583		979		96,666		28,575		25,042		10,806	
Marquette U.	37,136		13,187		539		15,058		1,027		2,162		5,163	
Medical C. Wisconsin	264,325		128,783		440		81,608		24,973		22,878		5,643	
Milwaukee School of Engineering	3,190		613		0		0		2,575		2		0	
Wyoming	93,061		57,353		5,164		24,503		4,519		1,394		128	
Public	93,061		57,353		5,164		24,503		4,519		1,394		128	
U. Wyoming	93,061		57,353		5,164		24,503		4,519		1,394		128	
Guam	13,043		9,722		1,706		1,555		25		0		35	
Public	13,043		9,722		1,706		1,555		25		0		35	
U. Guam	13,043		9,722		1,706		1,555		25		0		35	
Puerto Rico	111,101		75,685		1,559		26,490		4,412		629		2,326	
Public	90,095		59,435		1,072		24,414		4,412		629		133	
U. Puerto Rico, Cayey	1,974		1,210		0		639		13		112		0	
U. Puerto Rico, Humacao	1,456		1,279		0		177		0		0		0	
U. Puerto Rico, Mayaguez	26,553		15,842		681		8,960		712		315		43	
U. Puerto Rico, Medical Sciences Campus	37,217		27,033		361		6,251		3,551		0		21	
U. Puerto Rico, Rio Piedras	22,895		14,071		30		8,387		136		202		69	
Private	21,006		16,250		487		2,076		0		0		2,193	
Polytechnic U. Puerto Rico	813		813		0		NA		0		0		0	
Ponce Health Sciences U.	13,566		11,228		220		NA		0		0		2,118	
U. Ana G. Mendez, Carolina	647		520		0		127		0		0		0	
U. Ana G. Mendez, Gurabo	2,049		946		0		1,103		0		0		0	
U. Central del Caribe	3,931		2,743		267		846		0		0		75	
Virgin Islands	13,631		11,787		1,700		26		0		118		0	

TABLE 69

Higher education R&D expenditures, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Source of funds					
		Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
Public	13,631	11,787	1,700	26	0	118	0
U. of the Virgin Islands	13,631	11,787	1,700	26	0	118	0

i = imputed. NA = not available; data were not provided by institution.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	86,296,178	2,923,149	3,281,251	49,640,508	798,975	5,667,046	1,357,081	2,947,338	952,459	13,692,756	5,035,615
Public	56,663,756	1,797,660	2,605,508	31,245,694	491,712	3,505,603	1,009,961	2,028,392	747,561	9,616,951	3,614,714
Private	29,632,422	1,125,489	675,743	18,394,814	307,263	2,161,443	347,120	918,946	204,898	4,075,805	1,420,901
Alabama	1,186,697	60,544	29,587	717,505	7,049	42,260	11,724	19,271	3,151	219,549	76,057
Public	1,165,724	60,135	29,587	709,360	5,809	42,094	11,724	14,364	2,967	213,627	76,057
Alabama A&M U.	8,749	301 i	0 i	5,142 i	83 i	636 i	174 i	298 i	0 i	1,603 i	512 i
Alabama State U.	2,582	0	0	1,989	0	60	0	0	0	533	0
Auburn U., Auburn	255,281	5,006	3,460	110,768	3,736	15,247	2,824	6,902	2,967	70,593	33,778
Jacksonville State U.	1,244	3	0	44	0	0	0	0	0	11	1,186
Troy U.	1,692	5	49	290	6	1,216	3	20	0	0	103
U. Alabama, Birmingham	618,226	1,502	701	542,308	916	4,678	5,164	246	0	53,030	9,681
U. Alabama, Huntsville	131,648	36,636	17,304	3,170	726	13,353	218	1,717	0	51,198	7,326
U. Alabama, Tuscaloosa	95,200	12,836	3,062	8,985	262	6,471	3,030	4,595	0	33,019	22,940
U. South Alabama	51,102	3,846	5,011	36,664	80	433	311	586	0	3,640	531
Private	20,973	409	0	8,145	1,240	166	0	4,907	184	5,922	0
Tuskegee U.	20,973	409	0	8,145	1,240	166	0	4,907	184	5,922	0
Alaska	177,537	1,313	81,366	36,878	346	15,790	548	5,116	14,647	18,974	2,559
Public	176,276	1,313	80,170	36,840	346	15,790	548	5,116	14,647	18,974	2,532
U. Alaska, Anchorage	22,713	165	7,339	6,857	0	184	181	3,306	2,990	1,101	590
U. Alaska, Fairbanks	152,299	1,148	72,609	29,409	346	15,551	367	1,810	11,281	17,843	1,935
U. Alaska, Southeast	1,264	0	222	574	0	55	0	0	376	30	7
Private	1,261	0	1,196	38	0	0	0	0	0	0	27
Alaska Pacific U.	1,261	0	1,196	38	0	0	0	0	0	0	27
Arizona	1,499,135	39,986	112,100	579,914	9,040	181,821	21,270	102,088	115,362	239,474	98,080
Public	1,499,135	39,986	112,100	579,914	9,040	181,821	21,270	102,088	115,362	239,474	98,080
Arizona State U.	673,357	22,231	73,544	103,558	5,942	25,619	17,645	83,980	107,393	155,015	78,430
Dine C.	347	0	0	347	0	0	0	0	0	0	0
Northern Arizona U.	64,456	2,671	7,408	38,862	0	7,064	725	419	403	4,996	1,908
U. Arizona	760,975	15,084	31,148	437,147	3,098	149,138	2,900	17,689	7,566	79,463	17,742
Arkansas	370,782	8,553	3,519	269,832	125	12,897	855	7,404	1,045	39,756	26,796
Public	370,782	8,553	3,519	269,832	125	12,897	855	7,404	1,045	39,756	26,796

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Arkansas State U., Jonesboro	8,640	290	0	6,636	4	876	55	148	257	371	3
U. Arkansas for Medical Sciences	174,549	0	0	174,549	0	0	0	0	0	0	0
U. Arkansas, Fayetteville	165,887	4,591	3,499	77,569	97	9,791	707	7,186	85	37,758	24,604
U. Arkansas, Little Rock	9,711	3,246	0	2,878	0	1,105	0	27	0	1,627	828
U. Arkansas, Pine Bluff	8,540	0	0	7,415	0	540	0	0	572	0	13
U. Central Arkansas	3,455	426	20	785	24	585	93	43	131	0	1,348
California	10,910,956	295,111	502,329	6,868,708	74,078	947,919	169,517	332,650	175,552	1,156,517	388,575
Public	7,729,399	129,936	416,432	4,850,818	62,900	604,651	131,110	234,115	174,441	892,145	232,851
California Polytechnic State U., San Luis Obispo	26,605	626	1,105	7,929	2,841	5,672	185	675	0	4,646	2,926
California State Polytechnic U., Pomona	7,396	653	68	2,656	138	1,395	0	39	327	1,875	245
California State U., Bakersfield	7,053	0	176	245	3,173	91	504	264	0	1,449	1,151
California State U., Channel Islands	1,497	0	0	901	181	39	0	45	233	0	98
California State U., Chico	4,305	10	395	1,466	57	182	15	426	0	1,120	634
California State U., Dominguez Hills	2,065	700	13	144	116	556	95	186	0	0	255
California State U., East Bay	9,072	329	1,029	1,103	896	939	410	677	0	132	3,557
California State U., Fresno	8,856	117	147	4,306	412	1,127	34	456	0	1,748	509
California State U., Fullerton	5,929	83	329	2,440	11	1,254	106	110	508	616	472
California State U., Long Beach	16,684	102	514	4,816	691	2,670	1,465	625	284	4,733	784
California State U., Los Angeles	10,590	36	0	2,299	10	5,241	110	1,570	0	922	402
California State U., Maritime Academy	3,202	0	0	0	0	0	0	0	0	3,202	0
California State U., Monterey Bay	5,874	1,023	1,281	3,225	234	0	0	0	0	0	111
California State U., Northridge	21,228	201	2,158	6,822	980	5,407	473	559	1,690	1,115	1,823

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
California State U., Sacramento	24,939	178	839	1,328	94	296	310	7,680	2,956	7,744	3,514
California State U., San Bernardino	10,819	472	87	948	633	1,569	1,775	320	13	1,598	3,404
California State U., San Marcos	13,250	987	47	1,888	82	1,667	1,261	884	2,694	2,408	1,332
California State U., Stanislaus	1,843	331	1	1,169	194	17	13	44	0	0	74
Humboldt State U.	14,236	64	1,464	7,291	10	193	0	616	0	4,261	337
Naval Postgraduate School	62,903	7,345	6,566	1,655	2,824	9,161	0	6,040	1,752	22,933	4,627
San Diego State U.	97,710	1,519	2,234	27,880	3,899	6,402	20,222	5,106	3,669	7,934	18,845
San Francisco State U.	33,078 i	869 i	4,450 i	13,391 i	1,060 i	3,200 i	1,375 i	3,760 i	1,344 i	1,330 i	2,299 i
San Jose State U.	47,301	10	13,747	1,542	0	2,445	19,670	190	7	2,863	6,827
Sonoma State U.	1,545	8	571	456	141	203	10	40	29	1	86
U. California, Berkeley	840,000	12,701	9,845	258,228	8,263	141,434	19,329	60,568	76,642	209,293	43,697
U. California, Davis	816,693	7,256	30,153	597,962	4,455	26,495	3,022	28,486	8,894	97,951	12,019
U. California, Irvine	490,597	21,573	12,705	289,422	7,106	40,964	11,448	12,741	799	59,695	34,144
U. California, Los Angeles	1,392,941	17,480	41,594	989,602	13,161	54,697	19,087	60,591	48,975	93,520	54,234
U. California, Merced	45,966	194	2,943	9,333	3,047	7,593	1,712	2,988	420	15,191	2,545
U. California, Office of the President	60,686	1,485	0	46,725	0	8,123	0	0	4,353	0	0
U. California, Riverside	184,894	8,974	10,855	95,431	1,682	17,037	2,950	5,132	3,923	31,937	6,973
U. California, San Diego	1,403,735	30,370	201,331	828,401	4,857	94,124	20,113	19,942	13,715	182,495	8,387
U. California, San Francisco	1,651,073	0	0	1,581,411	0	69,662	0	0	0	0	0
U. California, Santa Barbara	254,434	9,231	40,396	30,838	1,416	58,534	4,929	7,631	867	87,681	12,911
U. California, Santa Cruz	150,400	5,009	29,389	27,565	236	36,262	487	5,724	347	41,752	3,629
Private	3,181,557	165,175	85,897	2,017,890	11,178	343,268	38,407	98,535	1,111	264,372	155,724
Azusa Pacific U.	7,068	148	0	2,002	64	205	885	274	0	31	3,459
Biola U.	1,187 i	42 i	1 i	771 i	11 i	85 i	13 i	40 i	0 i	167 i	57 i
California Institute of Technology	449,651	15,072	43,338	89,626	1,387	217,581	0	0	0	51,693	30,954
California Lutheran U.	630	14	0	316	16	112	24	16	0	0	132
Chapman U.	26,660	665	212	7,307	1	2,062	888	2,714	0	102	12,709

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Charles R. Drew U. of Medicine and Science	13,682	0	0	13,682	0	0	0	0	0	0	0
Claremont Graduate U.	9,403	207	0	0	70	0	966	3,122	0	0	5,038
Claremont McKenna C.	5,846	0	29	400	85	144	157	4,545	43	0	443
Harvey Mudd C.	2,916	791	0	520	174	543	0	0	194	628	66
High Tech High Graduate School of Ed.	3,304	0	0	0	0	0	0	0	0	0	3,304
Keck Graduate Institute	2,152 i	86 i	0 i	1,578 i	23 i	0 i	0 i	0 i	0 i	336 i	129 i
La Sierra U.	1,647	0	0	101	0	1	78	0	0	0	1,467
Loma Linda U.	25,077 i	0 i	0 i	25,077 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Loyola Marymount U.	7,193	24	489	591	187	233	1,515	1,285	0	165	2,704
Marshall B. Ketchum U.	1,357 i	0 i	0 i	1,357 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Mills C.	1,541	0	0	95	16	0	0	18	0	0	1,412
Occidental C.	2,657	236	1,086	368	58	414	65	190	240	0	0
Pepperdine U.	2,006	0	0	623	32	56	229	213	0	0	853
Pomona C.	2,855	95	274	338	129	872	248	620	6	0	273
Santa Clara U.	2,682	107	0	879	22	487	10	116	0	948	113
Scripps Research Institute	444,964	0	0	444,964	0	0	0	0	0	0	0
Stanford U.	1,203,950	26,512	20,216	836,401	7,036	94,954	18,866	24,770	104	130,950	44,141
Touro U.	3,551	0	0	3,539	0	0	0	0	0	0	12
U. of the Pacific	1,713	0	0	982	0	307	0	0	312	89	23
U. San Diego	8,607	0	163	217	225	1,496	190	289	68	1,252	4,707
U. San Francisco	2,161	60	106	308	25	72	39	397	144	6	1,004
U. Southern California	941,198	121,116	19,983	580,982	1,617	23,644	14,234	59,926	0	78,005	41,691
Western U. of Health Sciences	5,899	0	0	4,866	0	0	0	0	0	0	1,033
Colorado	1,665,742	25,511	197,783	831,543	8,297	147,816	23,547	36,174	6,477	292,491	96,103
Public	1,622,102	25,412	197,519	826,498	8,154	142,828	17,562	33,719	6,477	288,030	75,903
Colorado School of Mines	78,517	3,748	8,916	2,073	583	11,346	0	1,403	0	46,694	3,754
Colorado State U., Fort Collins	407,302	4,278	67,642	231,734	4,190	11,356	3,255	14,787	3,963	42,839	23,258
Colorado State U., Pueblo	3,104	0	0	1,703	6	18	0	0	0	210	1,167
Fort Lewis C.	1,370	0	56	297	0	470	0	42	0	505	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Colorado Boulder	525,674	15,627	119,824	52,074	2,659	115,340	11,982	16,443	2,177	160,423	29,125
U. Colorado Colorado Springs	5,557	1,035	173	845	11	270	226	124	334	1,367	1,172
U. Colorado Denver and Anschutz Medical Campus	554,643	234	612	536,533	524	1,192	1,921	282	3	6,180	7,162
U. Northern Colorado	3,738	0	296	1,239	181	122	178	346	0	0	1,376
U.S. Air Force Academy	42,197	490	0	0	0	2,714	0	292	0	29,812	8,889
Private	43,640	99	264	5,045	143	4,988	5,985	2,455	0	4,461	20,200
Colorado C.	2,291	0	96	156	23	75	115	363	0	0	1,463
U. Denver	41,349	99	168	4,889	120	4,913	5,870	2,092	0	4,461	18,737
Connecticut	1,400,865	12,527	16,512	1,106,456	7,989	78,741	32,879	26,926	2,794	85,378	30,663
Public	288,915	5,693	9,631	159,438	2,475	19,474	22,068	7,671	2,648	46,871	12,946
Central Connecticut State U.	1,572	21	91	131	17	82	8	519	0	120	583
Eastern Connecticut State U.	1,799	86	101	381	79	0	141	2	267	0	742
Southern Connecticut State U.	5,413	11	253	1,308	35	846	366	505	202	0	1,887
U. Connecticut	280,131	5,575	9,186	157,618	2,344	18,546	21,553	6,645	2,179	46,751	9,734
Private	1,111,950	6,834	6,881	947,018	5,514	59,267	10,811	19,255	146	38,507	17,717
Connecticut C.	1,598	248	0	275	0	350	208	517	0	0	0
Fairfield U.	1,210	6	1	279	75	153	26	20	7	117	526
Trinity C., Hartford	1,428	4	0	975	68	50	0	163	0	49	119
U. Hartford	1,436	5	0	101	131	0	0	0	0	1,002	197
U. New Haven	3,843	602	143	40	4	285	22	2,107	0	533	107
Wesleyan U.	8,300	0	821	909	533	2,383	871	454	0	0	2,329
Yale U.	1,094,135	5,969	5,916	944,439	4,703	56,046	9,684	15,994	139	36,806	14,439
Delaware	244,321	6,649	18,351	80,411	2,752	29,653	7,486	13,112	2,866	76,590	6,451
Public	244,321	6,649	18,351	80,411	2,752	29,653	7,486	13,112	2,866	76,590	6,451
Delaware State U.	23,876 i	1 i	654 i	14,314 i	865 i	4,461 i	1 i	176 i	549 i	2,332 i	523 i
U. Delaware	220,445	6,648	17,697	66,097	1,887	25,192	7,485	12,936	2,317	74,258	5,928
District of Columbia	684,793	28,688	1,354	368,232	4,760	45,160	11,150	85,798	9,293	35,924	94,434
Public	9,173	79	41	2,357	277	0	0	2,383	0	1,388	2,648
National Defense U.	4,583	0	0	200	0	0	0	2,383	0	0	2,000

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. of the District of Columbia	4,590	79	41	2,157	277	0	0	0	0	1,388	648
Private	675,620	28,609	1,313	365,875	4,483	45,160	11,150	83,415	9,293	34,536	91,786
American U.	71,839	672	642	1,886	1,559	4,714	2,248	20,632	5,152	0	34,334
Catholic U. of America	25,221	0	0	2,000	0	17,669	347	502	63	3,518	1,122
Gallaudet U.	4,599	486	10	1,239	3	5	988	173	0	0	1,695
George Washington U.	270,369	7,308	436	179,803	926	8,313	3,074	25,348	1,855	22,682	20,624
Georgetown U.	258,659	18,620	0	155,197	1,765	9,151	2,615	35,933	2,223	0	33,155
Howard U.	44,933	1,523	225	25,750	230	5,308	1,878	827	0	8,336	856
Florida	2,722,627	88,755	158,592	1,377,187	20,261	184,423	99,458	99,946	8,911	356,075	329,019
Public	2,279,125	83,513	92,826	1,061,045	18,569	173,752	83,314	97,420	8,873	333,638	326,175
Florida A&M U.	41,319	102	5,844	21,450	0	1,410	242	21	329	4,796	7,125
Florida Atlantic U.	53,845	2,586	1,186	28,725	1,268	3,147	2,306	210	0	10,574	3,843
Florida Gulf Coast U.	6,671	41	1,654	760	232	397	0	118	2	250	3,217
Florida International U.	236,842	16,175	16,023	55,877	1,470	27,354	34,642	17,828	1,063	39,826	26,584
Florida Polytechnic U.	1,091	241	0	34	0	76	0	31	0	689	20
Florida State U.	350,430	10,349	20,816	64,315	7,128	68,454	17,715	19,446	5,335	56,493	80,379
U. Central Florida	239,343	29,423	4,008	32,376	3,197	34,630	10,968	9,513	1,602	62,071	51,555
U. Florida	942,223	13,006	17,740	688,091	1,726	25,532	10,922	13,552	42	119,066	52,546
U. North Florida	13,573	178	10	1,388	70	682	96	633	0	2,433	8,083
U. South Florida, Saint Petersburg	18,243	0	0	1,120	0	56	1,413	3	0	0	15,651
U. South Florida, Sarasota-Manatee	2,150	0	0	162	0	5	158	213	0	0	1,612
U. South Florida, Tampa	333,344	9,417	24,670	164,666	3,165	11,433	4,710	31,616	500	37,162	46,005
U. West Florida	40,051	1,995	875	2,081	313	576	142	4,236	0	278	29,555
Private	443,502	5,242	65,766	316,142	1,692	10,671	16,144	2,526	38	22,437	2,844
Embry-Riddle Aeronautical U.	17,786	526	1,336	17	84	2,744	0	714	0	12,015	350
Florida Institute of Technology	18,271	4,287	2,310	667	188	2,777	1,652	0	33	5,362	995
Nova Southeastern U.	26,035	146	11,436	13,298	0	0	596	0	0	0	559
U. Miami	381,410	283	50,684	302,160	1,420	5,150	13,896	1,812	5	5,060	940

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Georgia	2,782,005	200,436	37,175	1,307,844	20,858	100,114	44,549	88,056	8,312	767,539	207,122
Public	1,878,257	196,597	36,100	529,753	17,869	71,692	38,844	84,433	6,471	718,582	177,916
Albany State U.	1,060	0	19	654	0	54	0	0	0	3	330
Augusta U.	103,961	61	0	103,554	13	29	101	128	0	0	75
Columbus State U.	261	112	0	38	8	7	0	17	0	0	79
Fort Valley State U.	4,921	0	0	4,581	184	72	0	0	0	84	0
Georgia Institute of Technology	1,048,988	185,400	12,904	43,699	8,826	34,215	3,943	33,645	0	695,176	31,180
Georgia Southern U.	12,166	65	719	1,664	67	5,465	27	113	0	1,929	2,117
Georgia State U.	202,451	3,435	1,104	66,831	1,973	19,395	8,952	24,697	0	0	76,064
Kennesaw State U.	17,954	3,727	0	5,740	107	1,019	38	2,096	350	1,478	3,399
Savannah State U.	1,804	0	728	234	0	50	0	0	153	639	0
U. Georgia	482,786	3,760	20,493	302,667	6,690	11,295	25,773	23,737	5,968	19,273	63,130
U. North Georgia	1,905	37	133	91	1	91	10	0	0	0	1,542
Private	903,748	3,839	1,075	778,091	2,989	28,422	5,705	3,623	1,841	48,957	29,206
Clark Atlanta U.	8,452	183	0	6,017	194	1,649	0	58	0	158	193
Emory U.	808,792	2,345	1,075	732,893	2,357	22,505	4,817	3,352	0	11,349	28,099
Mercer U.	49,116	136	0	8,624	224	2,038	258	81	144	37,450	161
Morehouse C.	4,825	1,141	0	120	166	1,517	42	3	1,697	0	139
Morehouse School of Medicine	29,813	0	0	29,813	0	0	0	0	0	0	0
Spelman C.	2,750	34	0	624	48	713	588	129	0	0	614
Hawaii	298,285	13,765	84,435	129,046	1,655	29,708	441	5,273	5,882	25,436	2,644
Public	296,489	13,679	84,215	127,798	1,641	29,708	441	5,058	5,882	25,423	2,644
U. Hawaii, Hilo	6,992	1	894	4,149	1,126	217	0	207	363	0	35
U. Hawaii, Manoa	275,929	11,963	71,468	123,649	515	29,491	441	4,851	5,519	25,423	2,609
U. Hawaii, system office	13,568	1,715	11,853	0	0	0	0	0	0	0	0
Private	1,796	86	220	1,248	14	0	0	215	0	13	0
Hawaii Pacific U.	1,796	86	220	1,248	14	0	0	215	0	13	0
Idaho	170,595	4,176	10,385	88,485	1,342	6,699	809	8,516	5,918	36,005	8,260
Public	170,595	4,176	10,385	88,485	1,342	6,699	809	8,516	5,918	36,005	8,260
Boise State U.	43,307	1,761	3,660	10,616	1,137	3,788	171	3,200	630	13,956	4,388
Idaho State U.	14,478	820	1,792	3,936	0	1,372	318	240	740	5,014	246

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Idaho	112,810	1,595	4,933	73,933	205	1,539	320	5,076	4,548	17,035	3,626
Illinois	2,764,954	153,741	22,722	1,691,542	18,514	231,053	39,510	69,410	56,483	354,532	127,447
Public	1,226,778	110,299	11,541	606,170	10,909	97,321	21,017	25,409	17,885	240,363	85,864
Illinois State U.	32,260	65	791	3,183	229	567	20	2,351	0	0	25,054
Northeastern Illinois U.	2,018	39	50	1,122	53	66	0	48	0	0	640
Northern Illinois U.	25,420	661	553	2,319	76	5,560	1,057	4,982	0	1,467	8,745
Southern Illinois U., Carbondale	41,617	396	848	33,480	278	2,013	223	954	1,092	2,333	0
Southern Illinois U., Edwardsville	18,273	151	1,979	8,190	817	911	0	286	502	1,424	4,013
U. Illinois, Chicago	412,147	12,999	1,021	314,296	4,109	15,752	3,621	7,905	4,862	31,496	16,086
U. Illinois, Springfield	3,406	0	0	5	0	14	2	2,838	0	0	547
U. Illinois, Urbana-Champaign	689,176	95,988	6,281	241,661	5,346	72,360	16,086	5,846	11,429	203,564	30,615
Western Illinois U.	2,461	0	18	1,914	1	78	8	199	0	79	164
Private	1,538,176	43,442	11,181	1,085,372	7,605	133,732	18,493	44,001	38,598	114,169	41,583
Bradley U.	851	7	0	78	0	81	5	52	0	617	11
DePaul U.	6,557	1,528	91	465	0	305	3,343	22	0	0	803
Erikson Institute	1,992	0	0	0	0	0	0	0	0	0	1,992
Illinois Institute of Technology	29,122	2,988	398	9,993	405	3,143	0	100	42	11,934	119
Loyola U., Chicago	39,365	160	121	35,073	188	763	1,105	800	0	0	1,155
Midwestern U.	10,479	0	0	10,479	0	0	0	0	0	0	0
Northwestern U.	874,671	8,441	1,351	619,270	2,275	78,168	3,706	18,762	38,556	77,150	26,992
Rosalind Franklin U. of Medicine and Science	14,601	0	0	14,516	0	0	85	0	0	0	0
Rush U.	94,438	0	0	92,494	0	0	1,944	0	0	0	0
Toyota Technological Institute, Chicago	5,887	5,887	0	0	0	0	0	0	0	0	0
U. Chicago	458,891	24,422	9,090	302,820	4,726	51,122	8,006	23,750	0	24,468	10,487
Wheaton C., Wheaton	1,322	9	130	184	11	150	299	515	0	0	24
Indiana	1,733,623	92,613	19,534	816,620	10,406	124,265	30,466	94,788	30,498	389,511	124,922
Public	1,506,088	77,709	19,534	788,870	5,149	79,410	25,016	85,928	21,237	305,033	98,202

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Ball State U.	9,429	1,263	9	2,738	51	834	214	1,662	0	0	2,658
Indiana State U.	1,471	0	120	745	23	160	5	1	10	4	403
Indiana U., Bloomington	728,554	43,034	7,962	518,775	1,740	33,389	12,822	47,029	13,701	14,294	35,808
Indiana U.-Purdue U., Indianapolis	71,387	5,002	1,277	21,183	595	2,324	4,592	16,055	4,584	7,179	8,596
Purdue U., Fort Wayne	2,264	0	0	488	69	126	168	22	64	443	884
Purdue U., Northwest	5,839	524	0	988	0	207	39	9	127	2,521	1,424
Purdue U., West Lafayette	687,144	27,886	10,166	243,953	2,671	42,370	7,176	21,150	2,751	280,592	48,429
Private	227,535	14,904	0	27,750	5,257	44,855	5,450	8,860	9,261	84,478	26,720
U. Notre Dame	227,535	14,904	0	27,750	5,257	44,855	5,450	8,860	9,261	84,478	26,720
Iowa	917,407	11,570	7,318	544,642	18,094	52,095	12,776	16,624	8,192	157,906	88,190
Public	904,660	11,213	7,121	538,618	17,687	51,353	12,603	15,308	8,192	157,906	84,659
Iowa State U.	363,107	7,666	4,538	123,853	17,062	27,216	3,786	6,923	5,821	109,473	56,769
U. Iowa	538,583	3,547	2,441	414,459	624	23,226	8,817	6,875	2,371	48,433	27,790
U. Northern Iowa	2,970	0	142	306	1	911	0	1,510	0	0	100
Private	12,747	357	197	6,024	407	742	173	1,316	0	0	3,531
Des Moines U.	5,021	0	197	3,637	0	0	0	561	0	0	626
Grinnell C.	5,826	357	0	487	407	742	173	755	0	0	2,905
Palmer C. of Chiropractic, Davenport	1,900	0	0	1,900	0	0	0	0	0	0	0
Kansas	739,872	7,927	12,306	357,633	4,023	21,379	21,867	17,378	8,014	184,492	104,853
Public	739,872	7,927	12,306	357,633	4,023	21,379	21,867	17,378	8,014	184,492	104,853
Fort Hays State U.	1,172	0	298	483	0	158	3	10	0	0	220
Kansas State U.	213,900	3,511	1,479	127,024	3,246	12,583	5,215	10,750	7,776	28,155	14,161
Pittsburg State U.	2,173	0	0	360	0	22	0	132	0	1,659	0
U. Kansas	368,811	4,416	10,485	226,786	672	7,502	16,106	6,450	238	19,830	76,326
Wichita State U.	153,816	0	44	2,980	105	1,114	543	36	0	134,848	14,146
Kentucky	641,301	4,214	4,142	495,930	2,285	14,350	6,713	5,775	13,655	67,099	27,138
Public	641,301	4,214	4,142	495,930	2,285	14,350	6,713	5,775	13,655	67,099	27,138
Eastern Kentucky U.	1,010	0	4	701	24	95	12	18	0	58	98
Kentucky State U.	7,963	32	0	7,806	125	0	0	0	0	0	0
Morehead State U.	1,883	5	16	299	0	0	4	267	0	1,271	21
Murray State U.	3,019	0	134	2,475	198	185	1	0	0	0	26

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Northern Kentucky U.	2,693	13	0	1,007	81	778	437	95	0	0	282
U. Kentucky	417,674	4,054	2,966	322,077	1,336	8,553	3,537	3,696	12,936	46,976	11,543
U. Louisville	198,818	97	180	158,677	494	2,954	2,050	1,593	719	18,105	13,949
Western Kentucky U.	8,241	13	842	2,888	27	1,785	672	106	0	689	1,219
Louisiana	798,373	26,321	44,249	490,091	6,586	45,934	4,294	17,791	11,847	90,082	61,178
Public	580,033	23,964	39,424	323,197	6,005	32,053	2,297	10,726	11,847	83,136	47,384
Grambling State U.	2,427	0	0	0	3	852	0	0	0	0	1,572
Louisiana State U., Baton Rouge	286,733	8,284	32,283	155,187	2,701	22,366	902	4,888	11,116	40,084	8,922
Louisiana State U., Health Sciences Center, New Orleans	43,419	0	0	43,419	0	0	0	0	0	0	0
Louisiana State U., Health Sciences Center, Shreveport	25,321	0	0	25,321	0	0	0	0	0	0	0
Louisiana Tech U.	26,585	2,475	84	2,510	771	1,775	571	726	0	11,459	6,214
Northwestern State U. Louisiana	1,940	272	0	307	19	0	0	738	0	5	599
Southeastern Louisiana U.	2,258	29	0	941	0	326	0	264	0	4	694
Southern U. and A&M C., Agricultural Research and Extension Center	4,475	0	0	4,475	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	3,849	202	0	338	5	735	0	528	0	1,424	617
U. Louisiana, Lafayette	164,070	11,111	5,426	87,621	2,117	3,546	327	97	102	27,878	25,845
U. Louisiana, Monroe	2,362	0	46	2,104	0	55	0	144	0	0	13
U. New Orleans	16,594	1,591	1,585	974	389	2,398	497	3,341	629	2,282	2,908
Private	218,340	2,357	4,825	166,894	581	13,881	1,997	7,065	0	6,946	13,794
Dillard U.	2,523	0	0	1,323	0	975	0	189	0	0	36
Tulane U.	204,430	2,257	4,825	161,642	581	5,720	1,942	6,876	0	6,881	13,706
Xavier U. Louisiana	11,387	100	0	3,929	0	7,186	55	0	0	65	52
Maine	151,263	3,368	25,976	49,024	920	7,412	1,639	5,820	10,296	36,787	10,021
Public	137,819	3,157	24,093	40,234	845	6,351	1,183	5,237	10,293	36,787	9,639
U. Maine	132,184	1,967	24,051	39,354	845	6,351	1,183	2,274	10,215	36,760	9,184
U. Southern Maine	5,635	1,190	42	880	0	0	0	2,963	78	27	455

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	13,444	211	1,883	8,790	75	1,061	456	583	3	0	382
Bates C.	2,303	113	119	1,247	16	405	173	161	3	0	66
Bowdoin C.	2,719	84	635	1,196	29	239	180	191	0	0	165
Colby C.	1,536	14	193	443	30	391	97	222	0	0	146
U. New England	6,886	0	936	5,904	0	26	6	9	0	0	5
Maryland	4,745,030	292,521	191,580	1,990,541	113,303	519,607	25,145	87,579	60,246	1,380,266	84,242
Public	1,634,536	65,825	126,024	942,873	7,529	129,362	19,227	81,358	9,287	174,634	78,417
Bowie State U.	1,967	682	0	414	0	272	0	0	0	0	599
Morgan State U.	17,193	520	3,384	5,061	134	411	83	98	0	7,228	274
Salisbury U.	9,496	346	891	2,366	113	212	19	485	0	0	5,064
Towson U.	3,612	603	709	836	179	476	192	264	0	0	353
U. Baltimore	15,054	22	0	0	0	67	0	3,367	0	0	11,598
U. Maryland[a]	1,103,062	50,541	58,099	594,114	5,356	105,718	9,288	64,636	7,050	153,109	55,151
U. Maryland Center for Environmental Science	54,560	2	43,554	9,194	5	541	0	216	42	122	884
U. Maryland, Baltimore County	83,867	11,590	15,158	11,478	729	18,278	1,973	11,597	2,195	6,671	4,198
U. Maryland, Eastern Shore	8,092	0	3,454	2,572	0	1,243	0	695	0	128	0
U.S. Naval Academy	13,123	1,519	775	0	1,013	2,144	0	0	0	7,376	296
Uniformed Services U. of the Health Sciences	324,510	0	0	316,838	0	0	7,672	0	0	0	0
Private	3,110,494	226,696	65,556	1,047,668	105,774	390,245	5,918	6,221	50,959	1,205,632	5,825
Johns Hopkins U.[b]	3,110,494	226,696 i	65,556 i	1,047,668 i	105,774 i	390,245 i	5,918 i	6,221 i	50,959 i	1,205,632 i	5,825 i
Massachusetts	4,361,466	221,488	262,744	1,768,663	49,717	401,800	61,560	289,039	47,342	933,909	325,204
Public	689,298	41,166	21,207	368,420	5,190	53,848	14,047	25,794	4,709	103,801	51,116
Framingham State U.	2,317	0	0	2,060	0	247	10	0	0	0	0
U. Massachusetts, Amherst	219,389	31,199	4,265	64,246	3,361	28,757	7,836	4,819	1,711	58,804	14,391
U. Massachusetts, Boston	64,219	1,242	3,848	8,950	449	3,584	4,361	12,734	453	1,206	27,392
U. Massachusetts, central office	5,225	0	0	545	0	0	0	1,818	1,909	0	953
U. Massachusetts, Dartmouth	26,836	1,572	10,917	1,467	717	2,116	94	499	0	7,944	1,510
U. Massachusetts, Lowell	92,216	7,153	2,177	12,056	663	19,144	1,746	5,924	636	35,847	6,870

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Massachusetts, Medical School	279,096	0	0	279,096	0	0	0	0	0	0	0
Private	3,672,168	180,322	241,537	1,400,243	44,527	347,952	47,513	263,245	42,633	830,108	274,088
Amherst C.	4,906	25	439	1,064	340	1,534	101	488	0	0	915
Babson C.	2,352	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	2,352 i
Boston C.	63,063	599	5,836	9,824	1,289	9,306	4,452	11,862	0	0	19,895
Boston U.	583,267	14,251	8,573	373,079	5,199	30,909	20,413	7,931	8,078	85,651	29,183
Brandeis U.	63,201	1,721	12	23,263	551	9,384	3,351	16,191	189	0	8,539
Clark U.	10,277	60	1,890	1,953	0	1,648	622	3,575	47	0	482
Emerson C.	919	23	0	0	0	0	0	462	0	0	434
Franklin W. Olin C. of Engineering	1,404	0	0	0	0	0	0	0	0	491	913
Harvard U.	1,239,983	15,250	43,505	684,127	20,038	100,654	5,099	142,484	7,303	97,884	123,639
Massachusetts Institute of Technology	987,968	111,779	32,718	126,648	10,434	153,044	484	51,477	19,833	419,636	61,915
Merrimack C.	503	0	0	253	0	0	0	0	60	78	112
MGH Institute of Health Professions	3,549	0	0	3,014	0	0	0	0	0	0	535
Mount Holyoke C.	2,016	141	0	359	147	496	584	168	0	0	121
New England C. of Optometry	1,150	0	0	1,150	0	0	0	0	0	0	0
Northeastern U.	200,068	21,118	4,039	32,626	878	20,709	8,863	11,615	0	89,954	10,266
Smith C.	4,685	391	36	1,783	182	321	226	151	5	952	638
Stonehill C.	833	0	393	0	0	0	0	0	159	0	281
Suffolk U.	2,106	0	28	29	0	100	584	0	28	76	1,261
Tufts U.	216,241	4,273	472	136,826	3,409	15,438	2,420	12,852	6,931	26,662	6,958
Wellesley C.	8,088	431	161	1,455	255	391	229	1,402	0	633	3,131
Williams C.	4,924 i	110 i	195 i	686 i	401 i	1,245 i	85 i	827 i	0 i	0 i	1,375 i
Woods Hole Oceanographic Institution	227,573	0	143,240	0	0	0	0	0	0	84,333	0
Worcester Polytechnic Institute	43,092	10,150	0	2,104	1,404	2,773	0	1,760	0	23,758	1,143
Michigan	2,867,807	38,200	40,004	1,568,488	36,712	249,100	40,691	246,416	32,931	441,626	173,639
Public	2,792,953	37,827	39,820	1,503,873	36,437	246,067	40,269	244,799	32,920	439,335	171,606

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Central Michigan U.	17,448	105	677	9,145	120	2,508	497	169	2,093	736	1,398
Eastern Michigan U.	9,088	376	172	3,498	216	690	183	1,039	8	402	2,504
Grand Valley State U.	6,792	9	2,887	1,914	166	374	63	657	48	236	438
Michigan State U.	713,197	15,783	5,435	319,883	12,494	154,318	16,399	50,407	16,975	82,690	38,813
Michigan Technological U.	77,927	2,994	13,896	3,804	2,260	4,094	551	1,260	609	45,263	3,196
Northern Michigan U.	1,523	0	91	727	0	35	201	109	0	0	360
Oakland U.	12,949	1,073	0	5,653	34	4,821	184	45	0	1,041	98
Saginaw Valley State U.	2,343	7	36	1,229	588	35	11	106	12	277	42
U. Michigan, Ann Arbor	1,673,862	15,180	14,928	967,660	18,648	60,824	20,413	187,421	4,528	283,329	100,931
U. Michigan, Dearborn	8,777	11	0	382	155	135	112	114	144	7,088	636
U. Michigan, Flint	1,247	11	0	222	0	29	0	14	102	376	493
Wayne State U.	243,259	2,133	296	182,757	1,716	16,895	1,464	3,289	8,397	12,806	13,506
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541	145	1,402	6,999	40	1,309	191	169	4	5,091	9,191
Private	74,854	373	184	64,615	275	3,033	422	1,617	11	2,291	2,033
Albion C.	1,132	1	84	96	31	422	45	176	11	0	266
Andrews U.	1,033	0	45	15	3	196	0	670	0	41	63
Calvin U.	1,497 i	239 i	35 i	496 i	31 i	441 i	0 i	98 i	0 i	104 i	53 i
Hope C.	3,822	28	20	636	68	1,315	242	673	0	175	665
Kettering U.	2,081	22	0	53	2	648	0	0	0	1,046	310
Lawrence Technological U.	1,521	63	0	0	0	6	0	0	0	806	646
U. Detroit Mercy	4,786	20	0	4,337	140	5	135	0	0	119	30
Van Andel Research Institute	58,982	0	0	58,982	0	0	0	0	0	0	0
Minnesota	1,086,730	23,943	18,970	744,391	9,649	46,684	32,476	32,801	2,567	125,648	49,601
Public	1,075,333	23,432	17,640	742,715	9,188	44,963	32,046	31,645	2,567	124,672	46,465
Minnesota State U., Mankato	2,754	0	1	548	0	52	59	121	72	1,486	415
St. Cloud State U.	3,056	75	217	441	0	15	8	206	7	71	2,016
U. Minnesota, Duluth	26,137	289	2,480	19,580	152	840	25	82	0	2,186	503
U. Minnesota, Morris	1,004	72	227	72	42	110	0	18	0	0	463
U. Minnesota, Twin Cities	1,042,382	22,996	14,715	722,074	8,994	43,946	31,954	31,218	2,488	120,929	43,068

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences		Life sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences		Sciences nec		Engineering		All non-S&E fields	
Private	11,397		511		1,330		1,676		461		1,721		430		1,156		0		976		3,136	
C. of Saint Benedict	1,069	i	51	i	11	i	149	i	17	i	167	i	27	i	65	i	0	i	0	i	582	i
Carleton C.	3,732		111		863		334		196		704		86		464		0		0		974	
Macalester C.	1,755		140		390		297		138		377		41		182		0		0		190	
Saint John's U., Collegeville	1,130	i	25	i	10	i	133	i	16	i	132	i	23	i	192	i	0	i	0	i	599	i
St. Olaf C.	1,032		167		38		249		51		106		43		219		0		0		159	
U. of St. Thomas (MN)	2,679		17		18		514		43		235		210		34		0		976		632	
Mississippi	506,660		6,042		48,518		228,919		2,467		45,719		2,689		43,979		6,812		90,481		31,034	
Public	504,558		6,042		48,518		227,178		2,467		45,358		2,689		43,979		6,812		90,481		31,034	
Alcorn State U.	13,710		0		0		7,918		0		0		0		5,659		0		133		0	
Jackson State U.	15,081		502		189		2,129		97		9,903		25		201		465		1,468		102	
Mississippi State U.	280,485		5,189		17,335		119,753		1,959		10,381		2,044		32,157		6,329		69,220		16,118	
U. Mississippi	122,960		207		1,151		86,130		216		11,652		620		2,317		18		13,661		6,988	
U. Southern Mississippi	72,322		144		29,843		11,248		195		13,422		0		3,645		0		5,999		7,826	
Private	2,102		0		0		1,741		0		361		0		0		0		0		0	
Tougaloo C.	2,102		0		0		1,741		0		361		0		0		0		0		0	
Missouri	1,444,375		15,977		8,074		1,145,163		3,169		44,657		15,748		9,278		6,355		134,840		61,114	
Public	449,797		9,346		1,391		256,514		1,930		19,314		9,303		7,639		3,052		108,398		32,910	
Lincoln U., Jefferson City	5,777		0		0		5,404		150		26		0		92		105		0		0	
Missouri State U.	13,131		53		95		1,812		0		418		28		357		0		10,257		111	
Missouri U. of Science and Technology	47,001		2,648		0		971		222		6,107		173		61		184		36,447		188	
U. Missouri, Columbia	332,180		4,187		988		220,890		1,279		9,173		7,898		3,957		2,191		53,343		28,274	
U. Missouri, Kansas City	36,356		1,625		308		20,183		14		1,680		1,064		907		563		8,351		1,661	
U. Missouri, Saint Louis	15,352		833		0		7,254		265		1,910		140		2,265		9		0		2,676	
Private	994,578		6,631		6,683		888,649		1,239		25,343		6,445		1,639		3,303		26,442		28,204	
Saint Louis U.	69,528		1,164		1,174		58,836		280		1,942		393		448		0		2,621		2,670	
U. of Health Sciences and Pharmacy in St. Louis	4,835		0		0		4,835		0		0		0		0		0		0		0	
Washington U., Saint Louis	920,215		5,467		5,509		824,978		959		23,401		6,052		1,191		3,303		23,821		25,534	
Montana	290,297		3,205		19,306		139,137		3,723		25,927		1,150		18,619		8,097		43,164		27,969	
Public	290,297		3,205		19,306		139,137		3,723		25,927		1,150		18,619		8,097		43,164		27,969	
Montana State U., Bozeman	166,285		1,459		5,603		71,440		2,536		17,990		359		1,126		8,097		38,833		18,842	

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Montana Technological U.	12,987	0	7,825	708	0	123	0	0	0	4,331	0
Salish Kootenai C.	807	0	0	172	0	222	0	0	0	0	413
U. Montana, Missoula	110,218	1,746	5,878	66,817	1,187	7,592	791	17,493	0	0	8,714
Nebraska	586,777	14,033	3,431	400,285	5,938	27,821	13,455	17,215	1,967	61,222	41,410
Public	565,315	13,117	2,966	384,839	5,734	26,235	13,196	16,282	1,967	61,221	39,758
U. Nebraska, central administration	23,672	1,385	0	13,089	0	0	0	0	0	8,340	858
U. Nebraska, Kearney	2,640	6	5	1,953	8	320	30	104	97	1	116
U. Nebraska, Lincoln	320,463	8,541	2,943	161,499	5,526	25,853	12,761	14,322	1,805	51,685	35,528
U. Nebraska, Medical Center	202,406	0	0	202,406	0	0	0	0	0	0	0
U. Nebraska, Omaha	16,134	3,185	18	5,892	200	62	405	1,856	65	1,195	3,256
Private	21,462	916	465	15,446	204	1,586	259	933	0	1	1,652
Creighton U.	20,339	730 i	465 i	14,845 i	204 i	1,463 i	259 i	933 i	0 i	0 i	1,440 i
Doane U.	1,123 i	186 i	0 i	601 i	0 i	123 i	0 i	0 i	0 i	1 i	212 i
Nevada	296,470	8,627	44,308	114,030	4,688	19,258	9,197	13,359	2,606	36,668	43,729
Public	292,090	8,627	44,308	109,650	4,688	19,258	9,197	13,359	2,606	36,668	43,729
Desert Research Institute	26,428	0	22,889	3,539	0	0	0	0	0	0	0
U. Nevada, Las Vegas	105,872	1,077	6,342	34,733	2,347	9,692	3,767	6,306	613	12,729	28,266
U. Nevada, Reno	159,790	7,550	15,077	71,378	2,341	9,566	5,430	7,053	1,993	23,939	15,463
Private	4,380	0	0	4,380	0	0	0	0	0	0	0
Roseman U. of Health Sciences	4,380	0	0	4,380	0	0	0	0	0	0	0
New Hampshire	484,313	15,743	56,918	224,493	6,252	25,716	14,116	31,714	2,901	54,605	51,855
Public	157,964	854	51,677	53,789	404	4,497	877	11,344	0	23,465	11,057
Keene State C.	1,063	0	16	967	0	72	0	0	0	8	0
U. New Hampshire	156,901	854	51,661	52,822	404	4,425	877	11,344	0	23,457	11,057
Private	326,349	14,889	5,241	170,704	5,848	21,219	13,239	20,370	2,901	31,140	40,798
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349	14,889	5,241	170,704	5,848	21,219	13,239	20,370	2,901	31,140	40,798
New Jersey	1,385,864	49,337	61,426	661,050	28,907	143,494	23,256	79,899	4,926	249,947	83,622
Public	937,168	21,571	32,459	568,718	15,320	46,425	14,016	21,985	4,596	149,830	62,248
C. New Jersey	1,464	194	0	657	6	366	7	54	0	105	75

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Kean U.	2,201	509	301	183	0	39	0	44	0	0	1,125
Montclair State U.	17,636	535	1,262	3,277	726	589	2,060	2,138	3	14	7,032
New Jersey City U.	262	24	0	65	47	82	15	0	1	0	28
New Jersey Institute of Technology	155,715	9,177	0	19,871	4,756	15,829	0	8,314	59	82,047	15,662
Rowan U.	26,018	482	409	11,115	0	664	504	311	0	11,784	749
Rutgers, State U. New Jersey, Camden	3,950	1,848	0	225	94	354	97	733	0	0	599
Rutgers, State U. New Jersey, New Brunswick	688,077	6,402	25,634	518,906	9,493	25,703	8,256	7,005	4,377	55,880	26,421
Rutgers, State U. New Jersey, Newark	28,006	2,269	1,485	13,014	0	2,384	2,132	1,678	156	0	4,888
Stockton U.	4,236	6	2,789	195	13	54	1	140	0	0	1,038
William Paterson U.	9,603	125	579	1,210	185	361	944	1,568	0	0	4,631
Private	448,696	27,766	28,967	92,332	13,587	97,069	9,240	57,914	330	100,117	21,374
Monmouth U.	1,729	0	1,621	88	0	19	0	1	0	0	0
Princeton U.	396,502	24,160	23,819	91,903	13,550	94,815	9,240	57,913	0	67,014	14,088
Seton Hall U.	5,718	0	0	138	0	401	0	0	0	0	5,179
Stevens Institute of Technology	44,747	3,606	3,527	203	37	1,834	0	0	330	33,103	2,107
New Mexico	376,331	11,417	19,223	191,984	1,663	36,331	7,103	11,093	8,756	80,853	7,908
Public	376,331	11,417	19,223	191,984	1,663	36,331	7,103	11,093	8,756	80,853	7,908
New Mexico Highlands U.	1,090	134	189	226	0	541	0	0	0	0	0
New Mexico Institute of Mining and Technology	24,591	2,780	6,729	260	53	1,361	0	0	0	13,084	324
New Mexico State U.	107,275	4,539	5,381	43,340	188	26,366	276	469	228	25,030	1,458
U. New Mexico	243,375	3,964	6,924	148,158	1,422	8,063	6,827	10,624	8,528	42,739	6,126
New York	7,156,316	167,687	154,846	4,648,805	48,637	448,369	117,494	164,944	29,120	999,626	376,788
Public	1,592,160	49,771	55,611	594,175	16,222	107,089	51,524	55,070	22,402	566,256	74,040
CUNY, Advanced Science Research Center	11,373	0	104	4,679	0	4,154	0	0	0	2,289	147
CUNY, Baruch C.	2,396	46	198	250	325	297	230	897	0	0	153
CUNY, Brooklyn C.	7,074	403	645	2,519	221	1,105	1,264	243	0	118	556
CUNY, C. Staten Island	3,682	66	0	1,277	691	860	342	4	0	294	148

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
CUNY, City C.	45,632	1,490	1,699	7,167	389	9,591	693	6	0	23,140	1,457
CUNY, Graduate Center	4,787	0	0	116	23	630	576	2,238	0	30	1,174
CUNY, Graduate School of Public Health and Health Policy	12,177	0	0	10,899	0	0	1,278	0	0	0	0
CUNY, Hunter C.	38,345	1,726	1,339	8,957	174	4,197	14,507	3,051	0	0	4,394
CUNY, John Jay C. of Criminal Justice	13,939	195	0	92	5	507	3,546	210	2	0	9,382
CUNY, Lehman C.	4,154	476	37	256	271	2,208	1	180	0	0	725
CUNY, Medgar Evers C.	882	0	1	487	49	216	0	74	0	0	55
CUNY, New York City C. of Technology	2,130	177	0	496	409	212	0	6	235	367	228
CUNY, Queens C.	16,470	182	817	11,236	228	1,444	1,222	477	0	0	864
CUNY, system office	1,704	215	39	84	0	0	0	0	0	1,132	234
CUNY, York C.	1,691	0	527	494	0	568	0	59	0	0	43
SUNY, Binghamton U.	117,870	7,873	1,916	12,877	2,830	18,586	12,263	16,907	0	32,668	11,950
SUNY, Buffalo State	2,253	0	895	929	91	3	40	250	0	0	45
SUNY, C. Brockport	1,719	3	353	1,197	5	74	0	81	0	0	6
SUNY, C. of Environmental Science and Forestry	29,296	119	1,211	26,083	0	294	180	110	91	912	296
SUNY, C. of Optometry	3,477	0	0	3,477	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	1,452	0	824	465	0	126	0	4	0	0	33
SUNY, Downstate Medical Center	33,204	0	0	33,204	0	0	0	0	0	0	0
SUNY, Geneseo	1,642	0	239	131	41	785	208	124	0	0	114
SUNY, Oswego	1,534	84	73	286	0	314	13	77	528	125	34
SUNY, Polytechnic Institute	355,651	0	0	1,977	0	0	0	0	0	353,542	132
SUNY, Stony Brook U.	263,470	10,909	25,334	121,070	7,629	41,224	4,946	2,881	16,030	30,180	3,267
SUNY, U. Albany	138,088	6,591	15,523	60,025	1,774	7,719	4,982	20,551	0	3,319	17,604
SUNY, U. Buffalo	422,038	18,747	3,739	241,467	1,067	11,161	5,113	6,356	1,147	112,843	20,398
SUNY, Upstate Medical U.	41,557	0	0	41,557	0	0	0	0	0	0	0
U.S. Military Academy	12,473	469	98	421	0	814	120	284	4,369	5,297	601
Private	5,564,156	117,916	99,235	4,054,630	32,415	341,280	65,970	109,874	6,718	433,370	302,748

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Albany C. of Pharmacy and Health Sciences	3,765	0	0	3,765	0	0	0	0	0	0	0
Albany Medical C.	23,510	0	0	23,510	0	0	0	0	0	0	0
Albert Einstein C. of Medicine	288,654	0	0	288,654	0	0	0	0	0	0	0
Alfred U.	2,780	0	1	52	0	7	0	0	0	2,720	0
Barnard C.	3,748	149	60	692	27	885	1,343	293	0	0	299
Clarkson U.	15,104	517	59	999	780	2,217	86	74	0	9,363	1,009
Cold Spring Harbor Laboratory	115,198	0	0	115,051	0	0	0	0	0	0	147
Colgate U.	2,913	188	453	478	84	618	74	268	0	0	750
Columbia U. in the City of New York	1,032,909	25,101	78,288	744,239	4,118	37,384	5,234	14,784	0	72,758	51,003
Cornell U.	1,190,063	31,173	8,145	822,419	3,323	121,218	11,516	25,622	0	123,703	42,944
Fordham U.	20,456	390	0	1,435	173	747	1,632	1,095	0	0	14,984
Hamilton C.	1,869	89	15	81	18	208	100	274	0	0	1,084
Hobart and William Smith Colleges	2,114	0	148	1,563	83	175	7	31	0	0	107
Hofstra U.	1,445	6	4	575	4	10	15	64	0	299	468
Icahn School of Medicine at Mount Sinai	747,014	0	0	747,014	0	0	0	0	0	0	0
Ithaca C.	1,199	39	6	459	64	378	7	176	0	0	70
Long Island U.	13,997	0	345	6,526	457	784	1,189	847	0	0	3,849
Manhattan C.	1,307	0	0	66	147	71	0	64	0	716	243
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	3,737	0	0	3,737	0	0	0	0	0	0	0
New School	13,186	6	537	324	0	0	1,249	3,790	144	3,205	3,931
New York Institute of Technology	3,580	188	0	2,757	0	0	0	70	0	458	107
New York Medical C.	20,137	0	0	20,137	0	0	0	0	0	0	0
New York U.	947,293	14,584	401	643,638	13,465	26,698	28,468	30,676	53	100,207	89,103
Niagara U.	1,124	0	0	76	9	54	0	22	41	0	922

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Pace U.	4,272	1,043	0	1,166	6	138	16	192	0	516	1,195
Rensselaer Polytechnic Institute	107,623	14,484	2,837	6,102	2,808	12,143	3,568	355	0	57,923	7,403
Rochester Institute of Technology	57,777	8,910	0	1,238	2,040	13,830	60	2,584	0	20,910	8,205
Rockefeller U.	356,217	9,058	986	337,377	1,612	7,184	0	0	0	0	0
Skidmore C.	2,412	6	632	937	12	363	325	41	0	0	96
St. Bonaventure U.	585	8	0	102	0	50	0	0	47	0	378
St. John's U., New York	3,282	9	0	2,324	66	405	126	0	0	0	352
Syracuse U.	149,652	5,081	3,060	10,724	2,528	13,905	3,771	14,165	184	24,272	71,962
Teachers C., Columbia U.	22,630	2,459	0	4,455	0	0	1,387	13,869	0	0	460
U. Rochester	397,211	4,021	3,104	259,224	201	101,004	5,576	279	6,249	16,116	1,437
Union C., Schenectady	1,062	7	154	60	33	268	0	111	0	204	225
Vassar C.	1,568	400	0	197	357	250	221	128	0	0	15
Yeshiva U.	2,763	0	0	2,477	0	286	0	0	0	0	0
North Carolina	3,385,735	65,157	68,136	2,422,196	40,041	105,884	60,767	139,146	14,501	341,820	128,087
Public	1,937,751	58,865	58,461	1,194,067	29,528	80,667	49,884	101,491	14,491	244,895	105,402
Appalachian State U.	4,894	336	499	1,879	90	408	344	585	0	0	753
East Carolina U.	57,820	828	4,586	33,206	75	2,168	1,321	1,886	0	3,053	10,697
Elizabeth City State U.	1,473	112	176	435	287	0	0	0	0	0	463
Fayetteville State U.	2,797	131	0	1,483	0	260	0	111	0	0	812
North Carolina Agricultural and Technical State U.	36,151	1,742	31	16,663	818	1,638	30	67	0	10,393	4,769
North Carolina Central U.	15,833	28	321	7,233	0	3,027	0	415	0	2,675	2,134
North Carolina State U.	546,290	16,119	27,010	240,399	20,164	23,464	2,479	9,826	13,888	174,740	18,201
U. North Carolina, Asheville	4,789	310	84	1,559	0	958	18	2	0	1	1,857
U. North Carolina, Chapel Hill	1,159,725	26,765	19,242	868,276	6,729	39,979	41,741	82,154	116	30,774	43,949
U. North Carolina, Charlotte	50,050	10,163	1,009	4,512	1,029	4,003	711	3,973	0	19,781	4,869
U. North Carolina, general administration	3,942	1,168	0	222	0	75	0	0	0	2,467	10
U. North Carolina, Greensboro	28,966	510	0	7,582	215	3,505	2,805	747	0	0	13,602

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. North Carolina, Wilmington	16,544	210	5,206	7,090	105	375	183	709	487	640	1,539
Western Carolina U.	2,696	0	297	1,128	11	253	0	292	0	371	344
Winston-Salem State U.	5,781	443	0	2,400	5	554	252	724	0	0	1,403
Private	1,447,984	6,292	9,675	1,228,129	10,513	25,217	10,883	37,655	10	96,925	22,685
Davidson C.	2,263	0	0	322	142	242	975	161	0	0	421
Duke U.	1,196,638	6,019	9,675	990,897	9,842	22,396	8,953	36,760	10	95,657	16,429
Elon U.	1,968	36	0	344	0	83	108	274	0	45	1,078
Johnson C. Smith U.	2,472	11	0	412	0	300	0	0	0	364	1,385
Wake Forest U.	244,643	226	0	236,154	529	2,196	847	460	0	859	3,372
North Dakota	267,308	6,632	7,334	133,219	1,554	9,991	4,304	16,831	5,531	66,518	15,394
Public	267,308	6,632	7,334	133,219	1,554	9,991	4,304	16,831	5,531	66,518	15,394
North Dakota State U.	155,645	3,433	553	101,693	1,120	6,502	2,798	15,215	4,546	14,007	5,778
U. North Dakota	111,663	3,199	6,781	31,526	434	3,489	1,506	1,616	985	52,511	9,616
Ohio	2,518,803	40,336	25,513	1,565,786	11,788	120,802	23,217	50,791	31,048	526,854	122,668
Public	1,911,016	32,846	23,354	1,179,211	11,305	110,853	21,911	46,255	30,607	335,861	118,813
Air Force Institute of Technology	35,584	2,441	742	0	658	7,796	0	0	0	23,947	0
Bowling Green State U.	18,729	274	1,903	1,766	532	2,326	1,444	3,333	0	121	7,030
Central State U.	6,107	0	126	5,451	37	6	0	0	321	166	0
Cleveland State U.	78,189	0	0	46,618	784	1,547	653	6,265	0	16,225	6,097
Kent State U.	50,307	1,766	958	8,335	1,309	8,381	4,776	4,793	868	2,743	16,378
Miami U.	24,489	721	1,354	12,044	310	1,329	1,685	582	0	3,783	2,681
Northeast Ohio Medical U.	15,758	0	0	15,579	0	0	0	40	137	0	2
Ohio State U.	968,260	22,869	9,158	590,076	5,881	57,083	7,542	18,486	27,995	175,109	54,061
Ohio U.	51,914	703	1,697	15,375	90	5,370	1,827	960	56	16,291	9,545
U. Akron	23,496	1	285	1,882	82	8,576	328	95	1	11,345	901
U. Cincinnati	530,138	2,031	1,171	440,721	1,422	8,874	1,667	11,291	977	43,098	18,886
U. Toledo	54,100	0	5,748	27,748	49	7,445	452	378	0	10,023	2,257
Wright State U.	49,825	2,034	210	13,515	145	1,774	1,525	0	252	29,519	851
Youngstown State U.	4,120	6	2	101	6	346	12	32	0	3,491	124
Private	607,787	7,490	2,159	386,575	483	9,949	1,306	4,536	441	190,993	3,855
C. Wooster	1,076	112	59	257	104	235	38	18	0	0	253

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Case Western Reserve U.	439,778	34	523	384,857	355	8,063	1,155	4,386	441	37,911	2,053
Heidelberg U.	1,125	0	1,125	0	0	0	0	0	0	0	0
Kenyon C.	908	0	0	534	16	300	29	17	0	0	12
Oberlin C.	1,182	144	93	295	4	483	51	77	0	0	35
U. Dayton	163,718	7,200	359	632	4	868	33	38	0	153,082	1,502
Oklahoma	604,114	11,746	87,895	265,609	6,363	29,752	11,670	32,454	6,634	85,883	66,108
Public	585,327	8,607	87,682	264,931	6,359	29,328	11,066	32,211	6,634	72,701	65,808
Langston U.	14,409	0	0	13,843	2	109	0	0	0	0	455
Oklahoma State U., Center for Health Sciences	8,378	95	0	7,616	0	0	373	0	0	258	36
Oklahoma State U., Stillwater	187,060	5,361	2,870	75,506	4,213	9,784	9,085	6,251	6,533	33,983	33,474
U. Central Oklahoma	5,788 i	132 i	0 i	366 i	126 i	696 i	0 i	0 i	101 i	1 i	4,366 i
U. Oklahoma, Norman and Health Science Center	362,209	3,019	84,812	164,967	2,018	18,739	1,608	25,818	0	36,643	24,585
U. Oklahoma, Tulsa	7,483	0	0	2,633	0	0	0	142	0	1,816	2,892
Private	18,787	3,139	213	678	4	424	604	243	0	13,182	300
U. Tulsa	18,787	3,139	213	678	4	424	604	243	0	13,182	300
Oregon	894,789	15,166	48,659	636,331	4,142	22,148	21,231	20,041	7,802	71,154	48,115
Public	877,468	15,066	48,443	628,646	3,693	20,124	20,561	19,489	7,296	71,154	42,996
Oregon Health and Science U.	446,890	0	0	433,917	0	0	53	0	0	12,856	64
Oregon Institute of Technology	4,267	37 i	312 i	1,741 i	77 i	0 i	122 i	0 i	0 i	679 i	1,299 i
Oregon State U.	268,385	8,213	39,215	143,505	1,595	4,814	1,115	6,696	6,373	50,900	5,959
Portland State U.	43,667	1,164	2,212	13,547	1,115	2,326	1,766	3,882	923	6,719	10,013
U. Oregon	114,259	5,652	6,704	35,936	906	12,984	17,505	8,911	0	0	25,661
Private	17,321	100	216	7,685	449	2,024	670	552	506	0	5,119
Lewis and Clark C.	3,350	32	212	651	174	749	69	20	0	0	1,443
National U. of Natural Medicine	1,428	0	0	1,428	0	0	0	0	0	0	0
Pacific U.	5,842	0	0	3,852	42	120	2	90	434	0	1,302
Reed C.	5,155	68	0	1,573	223	886	473	439	0	0	1,493

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Willamette U.	1,546	0	4	181	10	269	126	3	72	0	881
Pennsylvania	4,820,355	332,047	61,109	2,955,896	46,565	240,076	104,442	113,428	23,261	685,332	258,199
Public	2,413,716	105,290	54,990	1,464,757	25,331	141,194	70,543	42,505	11,077	431,916	66,113
Indiana U. Pennsylvania	6,531	331	161	1,251	26	425	630	842	2	0	2,863
Pennsylvania State U., Behrend	1,743	119	250	21	21	44	11	15	0	1,232	30
Pennsylvania State U., Harrisburg	1,866	130	5	411	0	0	0	1,178	0	74	68
Pennsylvania State U., University Park and Hershey Medical Center	991,923	89,490	41,590	291,299	17,706	94,201	40,599	27,842	0	367,730	21,466
Temple U.	299,707	5,901	2,044	216,388	3,213	18,447	11,418	6,746	807	9,294	25,449
U. Pittsburgh, Pittsburgh	1,105,532	9,312	10,875	954,315	4,169	27,652	17,680	4,990	10,268	53,586	12,685
West Chester U. Pennsylvania	6,414	7	65	1,072	196	425	205	892	0	0	3,552
Private	2,406,639	226,757	6,119	1,491,139	21,234	98,882	33,899	70,923	12,184	253,416	192,086
Bryn Mawr C.	11,575	691	260	705	561	1,423	295	1,573	0	0	6,067
Bucknell U.	5,339 i	189 i	89 i	578 i	399 i	512 i	144 i	112 i	284 i	1,550 i	1,482 i
Carnegie Mellon U.	386,996	192,119	448	14,696	12,000	21,580	11,507	12,461	5,365	102,955	13,865
Dickinson C.	929	0	106	369	9	28	41	81	0	0	295
Drexel U.	143,123	4,105	0	89,027	546	2,437	2,852	2,854	1,741	31,230	8,331
Duquesne U.	17,485	0	584	9,914	233	2,326	414	6	0	374	3,634
Franklin and Marshall C.	3,623	7	232	578	52	539	68	440	3	0	1,704
Gettysburg C.	913	3	25	260	5	203	91	226	0	0	100
Haverford C.	4,473	101 i	229 i	926 i	127 i	2,581 i	173 i	336 i	0 i	0 i	0
La Salle U.	818	45	0	14	0	0	2	38	0	0	719
Lafayette C.	1,390	101	8	94	69	388	155	119	0	251	205
Lehigh U.	38,064	2,333	1,510	4,121	228	3,495	561	95	30	24,054	1,637
Mercyhurst U.	1,850 i	67 i	42 i	1,350 i	19 i	132 i	23 i	84 i	2 i	0 i	131 i
Philadelphia C. of Osteopathic Medicine	3,360	0	0	3,360	0	0	0	0	0	0	0
Saint Joseph's U.	3,150	136	0	761	6	194	457	194	0	0	1,402
Swarthmore C.	3,544	15	0	841	103	734	117	274	89	367	1,004

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Thomas Jefferson U.	171,377	0	0	171,207	0	0	4	0	0	143	23
U. of the Sciences Philadelphia	3,761	0	0	3,181	0	580	0	0	0	0	0
U. Pennsylvania	1,579,364	26,318	1,760	1,185,719	6,817	58,157	15,854	51,374	4,670	82,299	146,396
Villanova U.	25,505	527	826	3,438	60	3,573	1,141	656	0	10,193	5,091
Rhode Island	395,730	16,325	49,478	164,345	12,234	22,466	10,392	34,075	20,602	34,177	31,636
Public	126,005	586	42,634	28,507	0	4,230	2,230	3,136	12,716	10,182	21,784
Naval War C.	5,944	0	0	0	0	0	0	724	0	0	5,220
Rhode Island C.	10,094	63	0	808	0	361	171	35	0	0	8,656
U. Rhode Island	109,967	523	42,634	27,699	0	3,869	2,059	2,377	12,716	10,182	7,908
Private	269,725	15,739	6,844	135,838	12,234	18,236	8,162	30,939	7,886	23,995	9,852
Brown U.	266,127	15,695	5,954	134,751	12,204	17,745	7,889	30,782	7,886	23,965	9,256
Providence C.	1,092	0	160	422	0	390	70	18	0	0	32
Rhode Island School of Design	975 i	44 i	0 i	476 i	0 i	0 i	0 i	137 i	0 i	0 i	318 i
Roger Williams U.	1,531	0	730	189	30	101	203	2	0	30	246
South Carolina	742,557	11,006	11,381	449,154	4,565	18,955	10,520	24,051	1,083	122,312	89,530
Public	737,897	10,363	11,231	447,379	4,508	17,626	10,495	23,812	1,083	121,894	89,506
C. Charleston	5,728	162	1,048	1,128	81	700	42	113	801	67	1,586
Citadel Military C. South Carolina	1,012	380	0	109	3	119	32	16	0	34	319
Clemson U.	228,597	4,852	0	71,776	2,607	10,823	633	6,680	0	76,971	54,255
Coastal Carolina U.	1,903	56	1,690	157	0	0	0	0	0	0	0
Medical U. South Carolina	272,590	0	0	272,590	0	0	0	0	0	0	0
South Carolina State U.	3,796 i	104 i	0 i	1,367 i	0 i	965 i	0 i	0 i	0 i	687 i	673 i
U. South Carolina, Aiken	2,590	0	119	962	0	51	20	6	0	1,331	101
U. South Carolina, Columbia	219,464	4,809	8,374	98,789	1,817	4,651	9,768	16,626	271	42,804	31,555
Winthrop U.	2,217	0	0	501	0	317	0	371	11	0	1,017
Private	4,660	643	150	1,775	57	1,329	25	239	0	418	24
Benedict C.	649	98	66	45	44	146	0	0	0	248	2
Claflin U.	1,910	500	37	857	13	258	0	75	0	170	0
Furman U.	2,101	45	47	873	0	925	25	164	0	0	22
South Dakota	110,619	5,678	927	67,703	919	7,569	879	2,480	0	19,552	4,912

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Public	110,619	5,678	927	67,703	919	7,569	879	2,480	0	19,552	4,912
Black Hills State U.	1,499	480	0	824	19	116	0	0	0	0	60
Dakota State U.	4,412	4,337	18	48	0	0	0	9	0	0	0
South Dakota School of Mines and Technology	14,490	49	0	0	339	1,425	0	0	0	12,677	0
South Dakota State U.	60,939	13	904	49,659	401	1,974	192	1,967	0	5,490	339
U. South Dakota	29,279	799	5	17,172	160	4,054	687	504	0	1,385	4,513
Tennessee	1,398,914	26,131	13,438	866,279	6,683	55,292	30,092	28,945	23,411	247,349	101,294
Public	555,337	26,000	11,519	222,632	4,972	26,990	14,398	21,723	23,411	152,536	51,156
Austin Peay State U.	2,833	0	596	1,333	3	15	3	2	22	0	859
East Tennessee State U.	13,925	19 i	0 i	10,103 i	149 i	439 i	2,755 i	88 i	0 i	65 i	307 i
Middle Tennessee State U.	8,697	245	48	2,029	39	596	58	1,583	0	182	3,917
Tennessee State U.	15,377	148	0	12,466	111	457	245	6	0	1,480	464
Tennessee Technological U.	14,085	2,221	60	2,306	59	1,178	175	55	0	7,559	472
U. Memphis	69,463	8,486	5,493	10,395	1,241	3,014	5,455	7,750	1,618	10,741	15,270
U. Tennessee, Chattanooga	10,834	975	0	1,036	189	52	242	68	3,179	3,319	1,774
U. Tennessee, Health Science Center	99,716	0	0	98,345	0	0	0	0	723	648	0
U. Tennessee, Knoxville[c]	320,407	13,906	5,322	84,619	3,181	21,239	5,465	12,171	17,869	128,542	28,093
Private	843,577	131	1,919	643,647	1,711	28,302	15,694	7,222	0	94,813	50,138
Fisk U.	3,904	93	0	3,585	12	212	0	2	0	0	0
Lipscomb U.	1,000 i	38 i	0 i	643 i	10 i	73 i	12 i	33 i	0 i	139 i	52 i
Meharry Medical C.	13,870	0	0	13,870	0	0	0	0	0	0	0
Vanderbilt U. and Vanderbilt U. Medical Center	824,803	0	1,919	625,549	1,689	28,017	15,682	7,187	0	94,674	50,086
Texas	6,619,640	229,842	237,344	4,004,305	84,128	344,083	87,181	137,557	35,481	1,026,651	433,068
Public	5,622,586	216,062	223,075	3,289,147	71,662	296,362	77,663	114,167	18,949	920,227	395,272
Lamar U.	4,327	74	0	285	55	80	0	20	0	1,825	1,988
Midwestern State U.	891	16	125	602	7	22	5	0	0	25	89
Prairie View A&M U.	18,723	292	62	8,280	145	1,353	536	213	0	5,222	2,620
Sam Houston State U.	12,437	18	72	1,730	338	481	602	2,444	53	20	6,679
Stephen F. Austin State U.	3,672	0	177	1,848	129	36	10	250	0	6	1,216
Sul Ross State U.	2,068	0	22	1,595	0	0	0	451	0	0	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Tarleton State U.	14,890	412	3,188	6,429	450	263	294	639	422	156	2,637
Texas A&M International U.	3,067	80	84	333	1	42	34	59	1,009	71	1,354
Texas A&M U., College Station and Health Science Center	1,130,803	18,504	107,894	502,372	8,768	54,574	5,248	29,389	5,636	357,559	40,859
Texas A&M U.-Commerce	4,166	94	0	924	26	939	374	139	0	48	1,622
Texas A&M U.-Corpus Christi	32,284	222	11,900	6,975	21	1,437	0	151	476	7,064	4,038
Texas A&M U.-Kingsville	22,745	0	849	16,722	0	164	98	0	82	2,653	2,177
Texas Southern U.	4,782	159	189	2,673	204	661	0	0	0	93	803
Texas State U.	70,714	2,197	7,357	12,417	1,038	2,208	223	4,907	2,003	6,892	31,472
Texas Tech U.	199,643	5,111	8,913	49,230	3,402	15,103	10,670	11,877	0	42,856	52,481
Texas Tech U., Health Sciences Center	44,135	0	0	43,102	0	0	0	0	0	0	1,033
Texas Tech U., Health Sciences Center, El Paso	10,421	0	0	10,294	0	0	0	0	0	0	127
Texas Woman's U.	4,135	14	0	2,259	23	204	488	200	50	0	897
U. Houston	200,428	5,599	9,437	34,394	3,596	50,164	13,999	1,536	647	55,210	25,846
U. Houston-Clear Lake	1,363	111	0	347	0	403	145	120	0	2	235
U. Houston-Downtown	2,299	95	94	46	10	72	0	247	82	36	1,617
U. North Texas, Denton	84,239	4,769	2,064	12,745	1,676	9,275	4,489	7,541	0	15,205	26,475
U. North Texas, Health Science Center	47,392	0	0	46,526	0	0	0	866	0	0	0
U. Texas Health Science Center, Houston	273,862	0	0	273,862	0	0	0	0	0	0	0
U. Texas Health Science Center, San Antonio	202,572	0	0	202,572	0	0	0	0	0	0	0
U. Texas Health Science Center, Tyler	21,265	0	0	21,265	0	0	0	0	0	0	0
U. Texas M. D. Anderson Cancer Center	1,051,297	0	0	981,164	21,622	19,060	16,860	12,591	0	0	0
U. Texas Medical Branch	180,595	0	0	179,403	0	0	0	0	0	1,192	0
U. Texas of the Permian Basin	2,105	0	0	335	0	24	7	320	36	217	1,166

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Texas Rio Grande Valley	56,702	1,520	1,769	28,351	2,174	5,148	917	3,660	53	4,018	9,092
U. Texas Southwestern Medical Center	595,939	0	0	595,939	0	0	0	0	0	0	0
U. Texas, Arlington	133,793	7,572	877	18,430	2,053	17,257	1,329	104	0	59,395	26,776
U. Texas, Austin	797,199	139,290	61,145	130,377	20,290	81,380	10,435	20,650	3,413	259,935	70,284
U. Texas, Dallas	132,192	9,992	856	35,986	1,155	17,759	789	2,166	16	50,812	12,661
U. Texas, El Paso	108,628	7,597	3,426	28,552	2,927	6,775	5,285	4,161	3,542	25,172	21,191
U. Texas, San Antonio	138,586	12,064	2,354	25,911	1,529	11,234	4,716	9,447	1,429	22,922	46,980
U. Texas, Tyler	2,007	50	2	1,302	22	33	110	19	0	344	125
West Texas A&M U.	6,220	210	219	3,570	1	211	0	0	0	1,277	732
Private	997,054	13,780	14,269	715,158	12,466	47,721	9,518	23,390	16,532	106,424	37,796
Baylor C. of Medicine	685,641	0	0	685,641	0	0	0	0	0	0	0
Baylor U.	39,765	1,011	2,185	7,456	933	6,993	2,726	1,945	3,549	4,515	8,452
Rice U.	198,681	10,760	5,152	16,008	9,363	33,656	4,798	19,959	604	91,913	6,468
Southern Methodist U.	43,081	683	6,100	2,144	1,291	3,847	1,457	326	1,236	9,798	16,199
St. Edward's U.	9,619	1,150	528	1,620	645	1,074	20	340	0	0	4,242
Texas Christian U.	15,326	126	248	822	2	695	189	319	11,143	46	1,736
Trinity U.	3,472	50	56	505	84	1,230	328	501	0	80	638
U. of the Incarnate Word	1,469	0	0	962	148	226	0	0	0	72	61
Utah	950,562	41,180	21,074	467,307	5,259	42,154	16,194	18,362	650	300,189	38,193
Public	911,993	39,830	20,613	458,089	4,911	36,886	15,896	17,438	650	284,246	33,434
U. Utah	607,061	37,159 i	20,011 i	402,001 i	4,065 i	30,170 i	11,198 i	14,837 i	189 i	57,608 i	29,823 i
Utah State U.	304,256	2,538	511	56,017	846	6,606	4,698	2,601	461	226,616	3,362
Weber State U.	676	133	91	71	0	110	0	0	0	22	249
Private	38,569	1,350	461	9,218	348	5,268	298	924	0	15,943	4,759
Brigham Young U., Provo	38,569	1,350	461	9,218	348	5,268	298	924	0	15,943	4,759
Vermont	193,824	3,153	2,956	143,380	2,154	5,473	3,435	4,557	5,188	11,209	12,319
Public	191,147	3,036	2,716	142,081	2,154	4,877	3,084	4,492	5,179	11,209	12,319
U. Vermont	191,147	3,036	2,716	142,081	2,154	4,877	3,084	4,492	5,179	11,209	12,319
Private	2,677	117	240	1,299	0	596	351	65	9	0	0
Middlebury C.	1,720	117	240	615	0	429	245	65	9	0	0
Saint Michael's C.	957	0	0	684	0	167	106	0	0	0	0

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Virginia	1,921,215	93,901	61,757	917,366	13,981	80,262	32,704	114,169	2,816	449,361	154,898
Public	1,897,975	93,202	58,241	907,074	13,647	76,690	32,373	113,060	2,816	447,657	153,215
Christopher Newport U.	2,608	0	0	644	7	829	50	148	0	566	364
Eastern Virginia Medical School	20,870	0	0	20,870	0	0	0	0	0	0	0
George Mason U.	221,006	23,969	10,679	33,163	1,941	5,586	3,196	67,966	0	52,423	22,083
James Madison U.	10,247	325	753	1,844	159	1,337	1,379	37	30	305	4,078
Norfolk State U.	7,153	4,921	0	114	48	726	0	0	0	1,312	32
Old Dominion U.	65,704	2,196	4,166	14,463	1,239	7,028	1,419	2,482	0	25,869	6,842
U. of Mary Washington	1,393	45	97	132	8	62	32	73	0	0	944
U. Virginia, Charlottesville	652,002	26,286	6,040	420,679	1,593	27,628	10,335	16,948	2,567	72,602	67,324
Virginia Commonwealth U.	283,874	2,138	354	206,550	793	3,499	10,743	1,701	0	29,811	28,285
Virginia Polytechnic Institute and State U.	556,341	30,405	3,068	199,798	6,776	24,214	4,899	13,082	219	263,711	10,169
Virginia State U.	10,014	0	0	6,123	645	0	0	0	0	1,058	2,188
William & Mary	66,763	2,917	33,084	2,694	438	5,781	320	10,623	0	0	10,906
Private	23,240	699	3,516	10,292	334	3,572	331	1,109	0	1,704	1,683
Edward Via C. of Osteopathic Medicine	7,475	0	0	7,475	0	0	0	0	0	0	0
Hampton U.	11,402	699	3,454	1,745	226	3,142	0	710	0	866	560
Liberty U.	1,894	0	0	307	2	0	15	5	0	838	727
U. Richmond	2,469	0	62	765	106	430	316	394	0	0	396
Washington	1,827,021	37,372	153,786	1,163,529	8,299	87,344	13,968	31,799	738	193,701	136,485
Public	1,823,201	37,351	153,720	1,162,567	8,111	86,571	13,938	31,383	738	193,561	135,261
Central Washington U.	2,674	58	1,525	449	104	306	1	116	0	61	54
Eastern Washington U.	2,282	0	58	422	15	66	47	1,613	0	0	61
Northwest Indian C.	2,708 i	1 i	1,033 i	103 i	0 i	0 i	0 i	1,044 i	0 i	0 i	527 i
U. Washington, Bothell	7,107	41	371	558	31	156	0	0	103	0	5,847
U. Washington, Seattle	1,456,902	27,986	135,307	963,264	7,120	60,477	8,802	15,458	0	152,919	85,569
U. Washington, Tacoma	3,504	696	2,089	164	47	0	0	124	0	59	325
Washington State U.	335,201	8,251	9,440	196,649	447	24,243	3,875	12,338	55	39,533	40,370
Western Washington U.	12,823	318	3,897	958	347	1,323	1,213	690	580	989	2,508
Private	3,820	21	66	962	188	773	30	416	0	140	1,224

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Seattle U.	2,060	21	42	156	184	165	0	200	0	140	1,152
U. Puget Sound	895	0	1	379	4	252	5	182	0	0	72
Whitman C.	865	0	23	427	0	356	25	34	0	0	0
West Virginia	217,788	2,291	9,883	131,068	483	14,065	1,773	3,595	1,257	42,032	11,341
Public	217,788	2,291	9,883	131,068	483	14,065	1,773	3,595	1,257	42,032	11,341
Marshall U.	22,250	287	258	16,302	1	1,030	0	5	0	1,137	3,230
West Virginia School of Osteopathic Medicine	1,311	0	0	1,303	0	0	0	0	0	0	8
West Virginia State U.	5,775	110	0	5,199	0	357	0	0	0	109	0
West Virginia U.	188,452	1,894	9,625	108,264	482	12,678	1,773	3,590	1,257	40,786	8,103
Wisconsin	1,746,799	29,449	72,842	1,127,103	13,451	97,171	17,914	68,477	47,084	165,956	107,352
Public	1,442,148	28,615	72,842	859,624	11,717	94,405	16,774	67,469	47,084	144,250	99,368
U. Wisconsin-Eau Claire	1,318	0	8	126	82	814	173	72	0	0	43
U. Wisconsin-Green Bay	1,982	57 i	90 i	1,114 i	18 i	125 i	34 i	73 i	0 i	338 i	133 i
U. Wisconsin-La Crosse	2,795	68	35	851	112	416	10	1,024	54	0	225
U. Wisconsin-Madison	1,363,931	28,241	65,000	839,302	6,675	83,687	12,090	59,239	44,219	133,600	91,878
U. Wisconsin-Milwaukee	61,069	116	7,288	10,279	4,792	8,699	4,404	6,710	2,811	9,683	6,287
U. Wisconsin-Oshkosh	1,777 i	60 i	94 i	989 i	17 i	128 i	35 i	53 i	0 i	312 i	89 i
U. Wisconsin-Platteville	1,104 i	18 i	71 i	396 i	21 i	101 i	28 i	63 i	0 i	145 i	261 i
U. Wisconsin-River Falls	1,107	55	0	224	0	330	0	0	0	103	395
U. Wisconsin-Stevens Point	4,764	0	226	4,317	0	105	0	5	0	60	51
U. Wisconsin-Superior	2,301	0	30	2,026	0	0	0	230	0	9	6
Private	304,651	834	0	267,479	1,734	2,766	1,140	1,008	0	21,706	7,984
Marquette U.	37,136	834	0	11,696	1,734	2,681	1,140	1,008	0	10,059	7,984
Medical C. Wisconsin	264,325	0	0	255,783	0	0	0	0	0	8,542	0
Milwaukee School of Engineering	3,190	0	0	0	0	85	0	0	0	3,105	0
Wyoming	93,061	581	12,944	47,073	1,276	1,248	664	535	7,100	20,317	1,323
Public	93,061	581	12,944	47,073	1,276	1,248	664	535	7,100	20,317	1,323
U. Wyoming	93,061	581	12,944	47,073	1,276	1,248	664	535	7,100	20,317	1,323
Guam	13,043	0	2,696	9,824	0	0	0	154	0	0	369
Public	13,043	0	2,696	9,824	0	0	0	154	0	0	369
U. Guam	13,043	0	2,696	9,824	0	0	0	154	0	0	369

TABLE 70

Higher education R&D expenditures, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Puerto Rico	111,101	1,020	9,377	62,460	191	7,431	156	1,812	4,451	18,515	5,688
Public	90,095	207	9,377	43,926	191	7,069	154	1,812	4,451	17,244	5,664
U. Puerto Rico, Cayey	1,974	0	0	1,092	0	203	53	460	166	0	0
U. Puerto Rico, Humacao	1,456	0	0	255	1	1,090	101	0	9	0	0
U. Puerto Rico, Mayaguez	26,553	0	5,487	1,881	45	1,347	0	233	0	16,903	657
U. Puerto Rico, Medical Sciences Campus	37,217	0	136	37,081	0	0	0	0	0	0	0
U. Puerto Rico, Rio Piedras	22,895	207	3,754	3,617	145	4,429	0	1,119	4,276	341	5,007
Private	21,006	813	0	18,534	0	362	2	0	0	1,271	24
Polytechnic U. Puerto Rico	813	813	0	0	0	0	0	0	0	0	0
Ponce Health Sciences U.	13,566	0	0	13,566	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	647	0	0	258	0	0	2	0	0	387	0
U. Ana G. Mendez, Gurabo	2,049	0	0	779	0	362	0	0	0	884	24
U. Central del Caribe	3,931	0	0	3,931	0	0	0	0	0	0	0
Virgin Islands	13,631	148	3,639	7,103	694	908	0	228	0	902	9
Public	13,631	148	3,639	7,103	694	908	0	228	0	902	9
U. of the Virgin Islands	13,631	148	3,639	7,103	694	908	0	228	0	902	9

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
Alabama				
Public				
U. Alabama, Birmingham	618,226		433,448	
U. South Alabama	51,102		18,895	
Arizona				
Public				
U. Arizona	760,975		199,558	
Arkansas				
Public				
U. Arkansas for Medical Sciences	174,549		174,549	
California				
Public				
U. California, Davis	816,693		218,837	
U. California, Irvine	490,597		162,501	
U. California, Los Angeles	1,392,941		877,779	
U. California, Riverside	184,894		12,624	
U. California, San Diego	1,403,735		567,066	
U. California, San Francisco	1,651,073		1,429,634	
Private				
Charles R. Drew U. of Medicine and Science[a]	13,682		1,761	
Loma Linda U.	25,077	i	14,793	i
Stanford U.	1,203,950		804,496	
Touro U.	3,551		1,496	
U. Southern California	941,198		553,449	
Western U. of Health Sciences	5,899		627	
Colorado				
Public				
U. Colorado Denver and Anschutz Medical Campus	554,643		368,619	
Connecticut				
Public				
U. Connecticut	280,131		91,115	
Private				
Yale U.	1,094,135		897,405	
District of Columbia				
Private				
George Washington U.	270,369		63,414	
Georgetown U.	258,659		148,287	
Howard U.	44,933		17,184	
Florida				
Public				
Florida Atlantic U.	53,845		7,812	
Florida International U.	236,842		13,240	
Florida State U.	350,430		32,224	
U. Central Florida	239,343		4,668	
U. Florida	942,223		413,667	
U. South Florida, Tampa	333,344		129,862	
Private				
Nova Southeastern U.	26,035		11,588	
U. Miami	381,410		289,710	
Georgia				

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
Public				
Augusta U.	103,961		99,310	
Private				
Emory U.	808,792		489,072	
Mercer U.	49,116		5,279	
Morehouse School of Medicine	29,813		29,813	
Hawaii				
Public				
U. Hawaii, Manoa	275,929		29,378	
Illinois				
Public				
Southern Illinois U., Carbondale	41,617		19,746	
U. Illinois, Chicago	412,147		188,917	
U. Illinois, Urbana-Champaign	689,176		379	
Private				
Loyola U., Chicago	39,365		32,954	
Midwestern U.	10,479		6,667	
Northwestern U.	874,671		669,341	
Rosalind Franklin U. of Medicine and Science	14,601		13,448	
Rush U.	94,438		91,199	
U. Chicago	458,891		303,561	
Indiana				
Public				
Indiana U., Bloomington	728,554		483,750	
Iowa				
Public				
U. Iowa	538,583		305,951	
Private				
Des Moines U.	5,021		722	
Kansas				
Public				
U. Kansas	368,811		143,930	
Kentucky				
Public				
U. Kentucky	417,674		164,532	
U. Louisville	198,818		137,378	
Louisiana				
Public				
Louisiana State U., Health Sciences Center, New Orleans	43,419		35,073	
Louisiana State U., Health Sciences Center, Shreveport	25,321		25,321	
Private				
Tulane U.	204,430		74,361	
Maine				
Private				
U. New England	6,886		1,338	
Maryland				
Public				
U. Maryland[b]	1,103,062		460,692	
Uniformed Services U. of the Health Sciences	324,510		227,981	
Private				

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
Johns Hopkins U.[c]	3,110,494		756,810	
Massachusetts				
Public				
U. Massachusetts, Medical School	279,096		279,096	
Private				
Boston U.	583,267		175,831	
Harvard U.	1,239,983		294,526	
Tufts U.	216,241		48,027	
Michigan				
Public				
Central Michigan U.	17,448		4,245	
Michigan State U.	713,197		89,464	
Oakland U.	12,949		1,069	
U. Michigan, Ann Arbor	1,673,862		678,209	
Wayne State U.	243,259		163,237	
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541		5,617	
Minnesota				
Public				
U. Minnesota, Twin Cities	1,042,382		325,841	
Mississippi				
Public				
U. Mississippi	122,960		43,557	
Missouri				
Public				
U. Missouri, Columbia	332,180		51,173	
U. Missouri, Kansas City	36,356		5,209	
Private				
Saint Louis U.	69,528		33,103	
Washington U., Saint Louis	920,215		767,811	
Nebraska				
Public				
U. Nebraska, Medical Center	202,406		125,498	
Private				
Creighton U.	20,339		14,793	i
Nevada				
Public				
U. Nevada, Las Vegas	105,872		9,046	
U. Nevada, Reno	159,790		31,078	
New Hampshire				
Private				
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349		157,938	
New Jersey				
Public				
Rowan U.	26,018		10,881	
Rutgers, State U. New Jersey, New Brunswick	688,077		314,904	
New Mexico				
Public				
U. New Mexico	243,375		99,013	
New York				
Public				

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
CUNY, City C.	45,632		4,337	
SUNY, Downstate Medical Center	33,204		32,666	
SUNY, Stony Brook U.	263,470		119,769	
SUNY, U. Buffalo	422,038		206,086	
SUNY, Upstate Medical U.	41,557		32,097	
Private				
Albany Medical C.	23,510		23,510	
Albert Einstein C. of Medicine	288,654		286,191	
Columbia U. in the City of New York	1,032,909		529,123	
Cornell U.	1,190,063		483,888	
Hofstra U.	1,445		7	
Icahn School of Medicine at Mount Sinai	747,014		747,014	
New York Institute of Technology	3,580		2,263	
New York Medical C.	20,137		17,107	
New York U.	947,293		577,824	
U. Rochester	397,211		246,992	
North Carolina				
Public				
East Carolina U.	57,820		19,480	
U. North Carolina, Chapel Hill	1,159,725		660,581	
Private				
Duke U.	1,196,638		951,248	
Wake Forest U.	244,643		230,497	
North Dakota				
Public				
U. North Dakota	111,663		26,637	
Ohio				
Public				
Northeast Ohio Medical U.	15,758		14,094	
Ohio State U.	968,260		437,814	
Ohio U.	51,914		9,464	
U. Cincinnati	530,138		428,734	
U. Toledo	54,100		18,480	
Wright State U.	49,825		11,632	
Private				
Case Western Reserve U.	439,778		356,343	
Oklahoma				
Public				
Oklahoma State U., Center for Health Sciences	8,378		8,378	
U. Oklahoma, Norman and Health Science Center	362,209		128,810	
U. Oklahoma, Tulsa	7,483		2,473	
Oregon				
Public				
Oregon Health and Science U.	446,890		257,102	
Pennsylvania				
Public				
Pennsylvania State U., University Park and Hershey Medical Center	991,923		99,514	
Temple U.	299,707		103,228	
U. Pittsburgh, Pittsburgh	1,105,532		816,602	
Private				

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
Drexel U.	143,123		47,029	
Philadelphia C. of Osteopathic Medicine	3,360		945	
Thomas Jefferson U.	171,377		156,488	
U. Pennsylvania	1,579,364		1,048,020	
Rhode Island				
Private				
Brown U.	266,127		130,019	
South Carolina				
Public				
Medical U. South Carolina	272,590		224,675	
U. South Carolina, Columbia	219,464		18,183	
South Dakota				
Public				
U. South Dakota	29,279		9,821	
Tennessee				
Public				
East Tennessee State U.	13,925		8,667	
U. Tennessee, Health Science Center	99,716		99,716	
Private				
Meharry Medical C.	13,870		11,687	
Vanderbilt U. and Vanderbilt U. Medical Center	824,803		461,701	
Texas				
Public				
Sam Houston State U.	12,437		162	
Texas A&M U., College Station and Health Science Center	1,130,803		52,199	
Texas Tech U., Health Sciences Center	44,135		28,086	
Texas Tech U., Health Sciences Center, El Paso	10,421		8,785	
U. Houston	200,428		223	
U. North Texas, Health Science Center	47,392		3,028	
U. Texas Health Science Center, Houston	273,862		162,789	
U. Texas Health Science Center, San Antonio	202,572		160,550	
U. Texas Medical Branch	180,595		173,519	
U. Texas Rio Grande Valley	56,702		22,605	
U. Texas Southwestern Medical Center	595,939		523,714	
U. Texas, Austin	797,199		35,055	
Private				
Baylor C. of Medicine	685,641		685,641	
Texas Christian U.	15,326		42	
U. of the Incarnate Word	1,469		284	
Utah				
Public				
U. Utah	607,061		217,404	
Vermont				
Public				
U. Vermont	191,147		105,789	
Virginia				
Public				
Eastern Virginia Medical School	20,870		20,635	
U. Virginia, Charlottesville	652,002		327,421	
Virginia Commonwealth U.	283,874		154,418	

TABLE 71

Higher education R&D expenditures at institutions with a medical school, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Medical school R&D expenditures	
Virginia Polytechnic Institute and State U.	556,341		0	
Private				
Edward Via C. of Osteopathic Medicine	7,475		7,475	
Liberty U.	1,894		130	
Washington				
Public				
U. Washington, Seattle	1,456,902		703,387	
Washington State U.	335,201		9,908	
West Virginia				
Public				
Marshall U.	22,250		13,636	
West Virginia School of Osteopathic Medicine	1,311		1,311	
West Virginia U.	188,452		26,811	
Wisconsin				
Public				
U. Wisconsin-Madison	1,363,931		471,616	
Private				
Medical C. Wisconsin	264,325		264,325	
Puerto Rico				
Public				
U. Puerto Rico, Medical Sciences Campus	37,217		12,807	
Private				
Ponce Health Sciences U.	13,566		13,566	
U. Central del Caribe	3,931		3,931	

i = imputed.

[a] MD degrees are granted by the University of California, Los Angeles (UCLA) through the Drew/UCLA Medical Education program, a partnership between the Charles R. Drew University of Medicine and Science and the UCLA, David Geffen School of Medicine.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in FY 2020.

Note(s):
The source for medical schools is institution response to survey question 4.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Alabama						
Public						
U. Alabama, Birmingham	618,226	54,620	400,110	18,793	218,116	35,827
U. South Alabama	51,102	715	21,825	67	29,277	648
Arizona						
Public						
Northern Arizona U.	64,456	1,275	39,387	1,074	25,069	201
U. Arizona	760,975	12,224	328,807	613	432,168	11,611
Arkansas						
Public						
U. Arkansas for Medical Sciences	174,549	3,030	70,508	76	104,041	2,954
California						
Public						
California Polytechnic State U., San Luis Obispo	26,605	901	10,178	764	16,427	137
California State U., San Marcos	13,250	179	11,547	179	1,703	0
San Francisco State U.	33,078 i	76 i	16,331 i	76 i	16,747 i	0 i
U. California, Berkeley	840,000	248	349,989	0	490,011	248
U. California, Davis	816,693	17,013	380,965	2,888	435,728	14,125
U. California, Irvine	490,597	18,635	241,734	4,418	248,863	14,217
U. California, Los Angeles	1,392,941	110,979	655,030	67,812	737,911	43,167
U. California, Riverside	184,894	15	92,503	0	92,391	15
U. California, San Diego	1,403,735	5,441	727,289	993	676,446	4,448
U. California, San Francisco	1,651,073	55,536	676,331	23,476	974,742	32,060
Private						
Stanford U.	1,203,950	125,708	751,414	48,423	452,536	77,285
Touro U.	3,551	798	1,558	745	1,993	53
U. Southern California	941,198	265,431	562,120	200,972	379,078	64,459
Western U. of Health Sciences	5,899	215	4,486	0	1,413	215
Colorado						
Public						
U. Colorado Denver and Anschutz Medical Campus	554,643	49,978	348,724	3,221	205,919	46,757
Private						
U. Denver	41,349	168	24,753	168	16,596	0
Connecticut						
Public						
Southern Connecticut State U.	5,413	23	1,026	23	4,387	0
U. Connecticut	280,131	8,381	164,848	6,128	115,283	2,253
Private						
Yale U.	1,094,135	39,349	585,170	0	508,965	39,349
Delaware						
Public						
U. Delaware	220,445	3,221	144,142	3,213	76,303	8
District of Columbia						
Private						
George Washington U.	270,369	13,767	157,533	11,177	112,836	2,590
Georgetown U.	258,659	15,912	98,682	41	159,977	15,871
Howard U.	44,933	523	29,256	28	15,677	495

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Florida						
Public						
Florida Atlantic U.	53,845	398	23,695	0	30,150	398
Florida International U.	236,842	10,136	103,366	8,683	133,476	1,453
Florida State U.	350,430	9,542	162,296	9,154	188,134	388
U. Central Florida	239,343	3,424	114,575	3,342	124,768	82
U. Florida	942,223	45,022	397,202	13,118	545,021	31,904
U. South Florida, Tampa	333,344	13,490	158,958	9	174,386	13,481
U. West Florida	40,051	30	12,369	0	27,682	30
Private						
Nova Southeastern U.	26,035	82	10,452	0	15,583	82
U. Miami	381,410	36,184	224,184	4,878	157,226	31,306
Georgia						
Public						
Augusta U.	103,961	3,594	55,797	9	48,164	3,585
U. Georgia	482,786	944	171,351	783	311,435	161
Private						
Emory U.	808,792	53,946	452,636	7,269	356,156	46,677
Mercer U.	49,116	609	31,572	164	17,544	445
Morehouse School of Medicine	29,813	2	22,500	0	7,313	2
Hawaii						
Public						
U. Hawaii, Manoa	275,929	310	163,694	137	112,235	173
Illinois						
Public						
Southern Illinois U., Carbondale	41,617	1,429	12,735	4	28,882	1,425
U. Illinois, Chicago	412,147	12,174	223,030	7,612	189,117	4,562
U. Illinois, Urbana-Champaign	689,176	173	387,853	173	301,323	0
Private						
Loyola U., Chicago	39,365	3,486	24,018	550	15,347	2,936
Midwestern U.	10,479	27	936	2	9,543	25
Northwestern U.	874,671	56,872 i	531,654	19,147 i	343,017	37,725 i
Rosalind Franklin U. of Medicine and Science	14,601	51	8,504	9	6,097	42
Rush U.	94,438	13,611	65,343	1,692	29,095	11,919
U. Chicago	458,891	28,057	352,447	276	106,444	27,781
Indiana						
Public						
Ball State U.	9,429	308	2,397	308	7,032	0
Indiana U., Bloomington	728,554	47,210	343,876	18,888	384,678	28,322
Indiana U.-Purdue U., Indianapolis	71,387	4,171	31,622	3,040	39,765	1,131
Iowa						
Public						
U. Iowa	538,583	17,586	259,639	0	278,944	17,586
Private						
Des Moines U.	5,021	4	449	0	4,572	4
Palmer C. of Chiropractic, Davenport	1,900	1,600	1,400	1,100	500	500
Kansas						

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Public						
U. Kansas	368,811	21,561	185,007	1,667	183,804	19,894
Kentucky						
Public						
U. Kentucky	417,674	6,378	200,664	540	217,010	5,838
U. Louisville	198,818	7,207	88,251	832	110,567	6,375
Louisiana						
Public						
Louisiana State U., Baton Rouge	286,733	13,073	87,895	9,293	198,838	3,780
Louisiana State U., Health Sciences Center, New Orleans	43,419	562	31,381	0	12,038	562
Louisiana State U., Health Sciences Center, Shreveport	25,321	156	11,452	1	13,869	155
Private						
Tulane U.	204,430	5,245	107,290	139	97,140	5,106
Maine						
Private						
Bowdoin C.	2,719	18	1,862	0	857	18
U. New England	6,886	125	5,064	125	1,822	0
Maryland						
Public						
Towson U.	3,612	31	2,010	31	1,602	0
U. Maryland[a]	1,103,062	28,779	689,125	1,807	413,937	26,972
Private						
Johns Hopkins U.[b]	3,110,494	48,241	2,682,410	487	428,084	47,754
Massachusetts						
Public						
U. Massachusetts, Medical School	279,096	5,219	192,938	285	86,158	4,934
Private						
Boston C.	63,063	746	31,038	746	32,025	0
Boston U.	583,267	2,451	339,172	55	244,095	2,396
Harvard U.	1,239,983	44,622	605,603	38,716	634,380	5,906
New England C. of Optometry	1,150	502	785	146	365	356
Tufts U.	216,241	3,157	148,320	1,274	67,921	1,883
Michigan						
Public						
Central Michigan U.	17,448	193	7,450	164	9,998	29
Grand Valley State U.	6,792	674	1,831	674	4,961	0
Michigan State U.	713,197	6,316	329,748	5,027	383,449	1,289
Michigan Technological U.	77,927	213	36,172	166	41,755	47
U. Michigan, Ann Arbor	1,673,862	31,192	884,880	3,148	788,982	28,044
U. Michigan, Flint	1,247	105	276	105	971	0
Wayne State U.	243,259	18,248	113,137	417	130,122	17,831
Western Michigan U. and Homer Stryker M.D. School of Medicine	24,541	455	13,187	1	11,354	454
Minnesota						
Public						
U. Minnesota, Twin Cities	1,042,382	43,756	514,092	23,313	528,290	20,443
Mississippi						

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Public						
U. Mississippi	122,960	5,191	82,361	4,520	40,599	671
U. Southern Mississippi	72,322	2	42,870	2	29,452	0
Missouri						
Public						
U. Missouri, Columbia	332,180	2,436	156,190	207	175,990	2,229
U. Missouri, Kansas City	36,356	106	22,320	0	14,036	106
Private						
Saint Louis U.	69,528	2,833	34,419	524	35,109	2,309
Washington U., Saint Louis	920,215	32,706	559,882	11,011 i	360,333	21,695 i
Montana						
Public						
Montana State U., Bozeman	166,285	1,210	93,759	1,065	72,526	145
Nebraska						
Public						
U. Nebraska, Kearney	2,640	322	1,259	316	1,381	6
U. Nebraska, Lincoln	320,463	1,382	107,299	1,289	213,164	93
U. Nebraska, Medical Center	202,406	14,335	105,158	6,612	97,248	7,723
Private						
Creighton U.	20,339	1,058 i	7,583	303 i	12,756	755 i
Nevada						
Public						
U. Nevada, Reno	159,790	165	64,793	165	94,997	0
New Hampshire						
Private						
Dartmouth C. and Dartmouth Hitchcock Medical Center	326,349	14,253	142,219	10,328	184,130	3,925
New Jersey						
Public						
Rowan U.	26,018	4	15,551	0	10,467	4
Rutgers, State U. New Jersey, New Brunswick	688,077	12,456	311,743	1,637	376,334	10,819
New Mexico						
Public						
U. New Mexico	243,375	6,866	161,627	2,998	81,748	3,868
New York						
Public						
SUNY, C. of Optometry	3,477	1,165	1,688	0	1,789	1,165
SUNY, Downstate Medical Center	33,204	104	26,454	9	6,750	95
SUNY, Stony Brook U.	263,470	4,673	146,478	2,385	116,992	2,288
SUNY, U. Buffalo	422,038	9,355	200,155	1,457	221,883	7,898
SUNY, Upstate Medical U.	41,557	3,566	23,940	172	17,617	3,394
Private						
Albany Medical C.	23,510	2,852	12,940	31	10,570	2,821
Albert Einstein C. of Medicine	288,654	161	204,635	161	84,019	0
Columbia U. in the City of New York	1,032,909	84,409	762,289	33,246	270,620	51,163
Cornell U.	1,190,063	24,809	562,021	9,536	628,042	15,273
Icahn School of Medicine at Mount Sinai	747,014	85,310	480,452	34,463	266,562	50,847
New York Medical C.	20,137	2,169	12,106	988	8,031	1,181

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
New York U.	947,293	30,453	448,850	3,896	498,443	26,557
Rockefeller U.	356,217	201	86,280	24	269,937	177
Syracuse U.	149,652	381	31,861	381	117,791	0
U. Rochester	397,211	33,222	296,241	6,362	100,970	26,860
North Carolina						
Public						
East Carolina U.	57,820	3,233	20,168	751	37,652	2,482
U. North Carolina, Chapel Hill	1,159,725	44,788	706,145	6,262	453,580	38,526
U. North Carolina, Greensboro	28,966	1,249	20,447	1,244	8,519	5
Private						
Duke U.	1,196,638	585,747	707,746	350,563	488,892	235,184
Wake Forest U.	244,643	20,390	166,596	10,598	78,047	9,792
North Dakota						
Public						
North Dakota State U.	155,645	2	31,614	1	124,031	1
Ohio						
Public						
Cleveland State U.	78,189	1,213 i	53,756	1,000 i	24,433	213 i
Kent State U.	50,307	1,049	15,004	1,045	35,303	4
Miami U.	24,489	414	10,473	414	14,016	0
Ohio State U.	968,260	60,938	539,359	22,994	428,901	37,944
Ohio U.	51,914	253	15,543	174	36,371	79
U. Cincinnati	530,138	31,900	285,899	16,071	244,239	15,829
U. Toledo	54,100	1,851	27,770	88	26,330	1,763
Wright State U.	49,825	468	35,321	52	14,504	416
Private						
Case Western Reserve U.	439,778	3,854	357,589	3,471	82,189	383
Oklahoma						
Public						
Oklahoma State U., Center for Health Sciences	8,378	2	2,618	0	5,760	2
U. Oklahoma, Norman and Health Science Center	362,209	11,271	183,728	9	178,481	11,262
U. Oklahoma, Tulsa	7,483	51	1,953	0	5,530	51
Private						
U. Tulsa	18,787	40	4,697	0	14,090	40
Oregon						
Public						
Oregon Health and Science U.	446,890	54,694	321,572	21,587	125,318	33,107
U. Oregon	114,259	6,287	81,278	6,269	32,981	18
Private						
National U. of Natural Medicine	1,428	404	912	368	516	36
Pacific U.	5,842	84	2,596	84	3,246	0
Pennsylvania						
Public						
Pennsylvania State U., University Park and Hershey Medical Center	991,923	8,256	638,930	935	352,993	7,321
Temple U.	299,707	17,280	154,600	1,634	145,107	15,646
U. Pittsburgh, Pittsburgh	1,105,532	17,681	689,273	2,160	416,259	15,521
Private						

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Drexel U.	143,123	1,202	82,576	242	60,547	960
Thomas Jefferson U.	171,377	19,536	74,676	4,449	96,701	15,087
U. Pennsylvania	1,579,364	76,144	721,308	6,745	858,056	69,399
South Carolina						
Public						
Medical U. South Carolina	272,590	39,434	153,802	21,912	118,788	17,522
U. South Carolina, Columbia	219,464	95	97,143	2	122,321	93
Tennessee						
Public						
East Tennessee State U.	13,925	1,864	7,329	1,503	6,596	361
U. Tennessee, Chattanooga	10,834	1	3,915	0	6,919	1
U. Tennessee, Health Science Center	99,716	1,851	48,264	49	51,452	1,802
Private						
Meharry Medical C.	13,870	241	12,573	77	1,297	164
Vanderbilt U. and Vanderbilt U. Medical Center	824,803	64,093	514,299	26,319	310,504	37,774
Texas						
Public						
Texas A&M U., College Station and Health Science Center	1,130,803	303	517,489	0	613,314	303
Texas A&M U.-Kingsville	22,745	25	9,610	25	13,135	0
Texas Tech U., Health Sciences Center	44,135	218	13,043	17	31,092	201
Texas Tech U., Health Sciences Center, El Paso	10,421	609	1,703	113	8,718	496
Texas Woman's U.	4,135	245	1,700	217	2,435	28
U. Houston	200,428	1,200	71,779	455	128,649	745
U. North Texas, Health Science Center	47,392	74	25,917	0	21,475	74
U. Texas Health Science Center, Houston	273,862	15,757	133,624	5,690	140,238	10,067
U. Texas Health Science Center, San Antonio	202,572	7,396	102,959	825	99,613	6,571
U. Texas M. D. Anderson Cancer Center	1,051,297	153,496	186,488	3,195	864,809	150,301
U. Texas Medical Branch	180,595	4,176	114,103	1,394	66,492	2,782
U. Texas Southwestern Medical Center	595,939	39,992	242,679	13,462	353,260	26,530
U. Texas, Arlington	133,793	465	44,950	465	88,843	0
U. Texas, Austin	797,199	5,549	500,409	5,259	296,790	290
U. Texas, El Paso	108,628	902	39,126	902	69,502	0
Private						
Baylor C. of Medicine	685,641	32,289	315,101	12,542	370,540	19,747
Baylor U.	39,765	740	8,851	740	30,914	0
Rice U.	198,681	1,234	88,768	654	109,913	580
Texas Christian U.	15,326	797	3,168	797	12,158	0
Utah						
Public						
U. Utah	607,061	30,470	314,023	0	293,038	30,470
Vermont						
Public						
U. Vermont	191,147	5,846	97,981	5,261	93,166	585
Private						
Saint Michael's C.	957	106	775	106	182	0
Virginia						
Public						

TABLE 72

Higher education R&D expenditures at institutions reporting clinical trials, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total		Federal		Nonfederal	
	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials	All R&D expenditures	Clinical trials
Eastern Virginia Medical School	20,870	2,814	15,748	1,092	5,122	1,722
Old Dominion U.	65,704	127	30,330	127	35,374	0
U. Virginia, Charlottesville	652,002	6,725	300,348	364	351,654	6,361
Virginia Commonwealth U.	283,874	2,800	152,751	169	131,123	2,631
Virginia Polytechnic Institute and State U.	556,341	6,740	210,792	6,556	345,549	184
Washington						
Public						
U. Washington, Seattle	1,456,902	43,316	1,024,195	16,594	432,707	26,722
Washington State U.	335,201	929	154,623	841	180,578	88
West Virginia						
Public						
Marshall U.	22,250	65	11,078	0	11,172	65
West Virginia U.	188,452	3,305	79,657	188	108,795	3,117
Wisconsin						
Public						
U. Wisconsin-Madison	1,363,931	15,351	632,558	855	731,373	14,496
Private						
Marquette U.	37,136	1,475	13,187	1,281	23,949	194
Medical C. Wisconsin	264,325	16,712	128,783	514	135,542	16,198
Puerto Rico						
Public						
U. Puerto Rico, Medical Sciences Campus	37,217	2,853	27,033	2,084	10,184	769
Private						
Ponce Health Sciences U.	13,566	1,760	11,228	0	2,338	1,760

i = imputed.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed clinical trials R&D expenditures in FY 2020.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 73

Total and federally financed higher education R&D expenditures received as a subrecipient, by highest degree granted and institutional control: FY 2020

(Dollars in thousands)

R&D expenditures and type of institution	All R&D expenditures	R&D expenditures received as a subrecipient				
		Total	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Total R&D, all institutions	86,296,178	7,825,942	3,821,399	1,209,172	1,496,831	1,298,540
Doctorate	85,607,541	7,758,777	3,786,435	1,207,156	1,484,895	1,280,291
Nondoctorate	688,637	67,165	34,964	2,016	11,936	18,249
Public	56,663,756	5,238,383	2,304,602	857,200	964,939	1,111,642
Private	29,632,422	2,587,559	1,516,797	351,972	531,892	186,898
Federally financed R&D, all institutions	46,143,829	6,619,717	3,420,556	950,588	1,158,578	1,089,995
Doctorate	45,787,836	6,565,967	3,390,295	948,898	1,148,383	1,078,391
Nondoctorate	355,993	53,750	30,261	1,690	10,195	11,604
Public	28,492,277	4,395,333	2,068,111	657,433	730,547	939,242
Private	17,651,552	2,224,384	1,352,445	293,155	428,031	150,753

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see table 84.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 74

Total and federally financed higher education R&D expenditures passed through to subrecipients, by highest degree granted and institutional control: FY 2020

(Dollars in thousands)

Type of institution	All R&D expenditures	R&D expenditures passed through to subrecipients				
		Total	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Total R&D, all institutions	86,296,178	7,053,612	3,866,145	1,338,352	1,241,079	608,036
Doctorate	85,607,541	7,025,460	3,848,301	1,335,145	1,236,171	605,843
Nondoctorate	688,637	28,152	17,844	3,207	4,908	2,193
Public	56,663,756	4,388,534	2,463,132	930,952	629,894	364,556
Private	29,632,422	2,665,078	1,403,013	407,400	611,185	243,480
Federally financed R&D, all institutions	46,143,829	5,962,370	3,404,432	1,071,398	1,044,447	442,093
Doctorate	45,787,836	5,939,192	3,388,814	1,069,201	1,040,468	440,709
Nondoctorate	355,993	23,178	15,618	2,197	3,979	1,384
Public	28,492,277	3,758,924	2,148,015	813,917	517,120	279,872
Private	17,651,552	2,203,446	1,256,417	257,481	527,327	162,221

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see table 84.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
United States	7,825,942	3,821,399	1,209,172	1,496,831	1,298,540	6,619,717	3,420,556	950,588	1,158,578	1,089,995
Alabama										
Public										
Alabama A&M U.	748	748	0	0	0	748	748	0	0	0
Alabama State U.	169	169	0	0	0	169	169	0	0	0
Auburn U., Auburn	35,326 i	8,580 i	7,983 i	669 i	18,094 i	32,816	7,658	7,586	259	17,313
Jacksonville State U.	0	0	0	0	0	0	0	0	0	0
Troy U.	109	42	0	4	63	109	42	0	4	63
U. Alabama, Birmingham	70,578	29,334	35,910	2,427	2,907	70,578	29,334	35,910	2,427	2,907
U. Alabama, Huntsville	41,180	3,730	31,927	1,166	4,357	39,400	3,715	30,957	884	3,844
U. Alabama, Tuscaloosa	20,985	4,854	4,963	4,825	6,343	20,985	4,854	4,963	4,825	6,343
U. South Alabama	6,056	3,407	1,853	319	477	4,312	3,407	499	14	392
Private										
Tuskegee U.	1,281	999	87	195	0	1,281	999	87	195	0
Alaska										
Public										
U. Alaska, Anchorage	3,026	867	114	227	1,818	2,758	778	114	225	1,641
U. Alaska, Fairbanks	9,565	3,098	679	4,664	1,124	8,484	2,897	366	4,097	1,124
U. Alaska, Southeast	24	0	0	24	0	24	0	0	24	0
Private										
Alaska Pacific U.	35	35	0	0	0	32	32	0	0	0
Arizona										
Public										
Arizona State U.	81,708	24,031	9,063	45,867	2,747	44,942	22,190	6,655	13,896	2,201
Dine C.	31	31	0	0	0	31	31	0	0	0
Northern Arizona U.	6,569 i	3,935 i	1,080 i	1,096 i	458 i	5,948	3,716	1,059	1,028	145
U. Arizona	60,667 i	26,584 i	7,235 i	20,749 i	6,099 i	54,698	24,397	6,283	19,768	4,250
Arkansas										
Public										
Arkansas State U., Jonesboro	2,014	1,200	0	0	814	2,009	1,195	0	0	814
U. Arkansas for Medical Sciences	10,121	3,908	1,781	1,425	3,007	10,025	3,812	1,781	1,425	3,007

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Arkansas, Fayetteville	11,161	4,644	1,302	372	4,843	10,789	4,272	1,302	372	4,843
U. Arkansas, Little Rock	2,822	1,089	152	0	1,581	2,428	980	140	0	1,308
U. Arkansas, Pine Bluff	172	172	0	0	0	116	116	0	0	0
U. Central Arkansas	1,163	1,007	0	2	154	1,107	957	0	0	150
California										
Public										
California Polytechnic State U., San Luis Obispo	3,224	1,513	906	335	470	2,775	1,326	878	247	324
California State Polytechnic U., Pomona	1,373	850	112	11	400	1,188	777	0	11	400
California State U., Bakersfield	170	170	0	0	0	100	100	0	0	0
California State U., Channel Islands	56	11	0	25	20	1	1	0	0	0
California State U., Chico	590	384	0	0	206	384	178	0	0	206
California State U., Dominguez Hills	516	516	0	0	0	516	516	0	0	0
California State U., East Bay	1,551	932	99	152	368	457	390	67	0	0
California State U., Fresno	2,615	2,016	50	310	239	418	135	24	20	239
California State U., Fullerton	652	594	8	50	0	623	578	8	37	0
California State U., Long Beach	4,934	2,278	670	779	1,207	1,499	1,200	53	80	166
California State U., Los Angeles	1,564	1,281	0	58	225	1,357	1,281	0	58	18
California State U., Maritime Academy	295	86	0	0	209	72	34	0	0	38
California State U., Monterey Bay	2,540	518	7	1,646	369	2,278	365	0	1,642	271
California State U., Northridge	2,219	1,459	2	735	23	1,386	1,057	2	304	23
California State U., Sacramento	1,392 i	479	87 i	129 i	697 i	879	246	0	5	628
California State U., San Bernardino	289	125	0	0	164	289	125	0	0	164
California State U., San Marcos	672	312	0	247	113	297	212	0	85	0
California State U., Stanislaus	440	375	0	4	61	384	374	0	0	10
Humboldt State U.	2,551	1,156	17	525	853	1,263	358	0	308	597
Naval Postgraduate School	974	381	485	108	0	0	0	0	0	0
San Diego State U.	9,687	6,882	717	1,812	276	8,496	5,752	696	1,812	236
San Francisco State U.	2,304 i	1,961 i	42 i	127 i	174 i	1,816 i	1,664 i	42 i	90 i	20 i
San Jose State U.	4,854	3,906	320	343	285	4,540	3,711	320	224	285
Sonoma State U.	199	168	0	7	24	127	96	0	7	24

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. California, Berkeley	56,715	40,940	4,531	7,094	4,150	43,498	31,207	3,396	5,000	3,895
U. California, Davis	46,687	26,137	5,396	8,660	6,494	36,662	23,082	2,794	6,139	4,647
U. California, Irvine	35,654	21,436	8,286	5,795	137	27,832	18,502	4,439	4,796	95
U. California, Los Angeles	72,218	43,527	10,092	18,030	569	61,143	37,684	8,550	14,907	2
U. California, Merced	1,079	789	44	0	246	755	686	0	0	69
U. California, Office of the President	0	0	0	0	0	0	0	0	0	0
U. California, Riverside	9,523	6,740	1,128	1,090	565	8,150	5,992	796	920	442
U. California, San Diego	49,900	28,518	3,694	17,238	450	42,843	24,534	2,555	15,479	275
U. California, San Francisco	97,710	43,108	5,573	47,878	1,151	87,067	39,195	4,569	43,091	212
U. California, Santa Barbara	24,312	13,609	3,551	6,905	247	21,272	11,517	3,260	6,270	225
U. California, Santa Cruz	7,454	5,365	462	1,603	24	6,353	4,794	462	1,073	24
Private										
Azusa Pacific U.	150	128	0	0	22	128	128	0	0	0
Biola U.	98 i	55 i	13 i	23 i	7 i	84 i	51 i	10 i	18 i	5 i
California Institute of Technology	42,926	30,557	2,944	9,410	15	39,144	27,413	2,748	8,968	15
California Lutheran U.	144	144	0	0	0	144	144	0	0	0
Chapman U.	1,767 i	1,130 i	417 i	220 i	0 i	1,596	1,054	417	125	0
Charles R. Drew U. of Medicine and Science	1,058	0	0	0	1,058	1,058	0	0	0	1,058
Claremont Graduate U.	217	116	70	31	0	148	78	70	0	0
Claremont McKenna C.	54	54	0	0	0	54	54	0	0	0
Harvey Mudd C.	276	165	0	111	0	276	165	0	111	0
High Tech High Graduate School of Ed.	0	0	0	0	0	0	0	0	0	0
Keck Graduate Institute	132 i	19 i	113 i	0 i	0 i	113 i	0 i	113 i	0 i	0 i
La Sierra U.	4	4	0	0	0	4	4	0	0	0
Loma Linda U.	2,655 i	903 i	1,300 i	45 i	407 i	2,505 i	842 i	1,219 i	45 i	399 i
Loyola Marymount U.	243	238	0	5	0	0	0	0	0	0
Marshall B. Ketchum U.	34 i	34 i	0 i	0 i	0 i	34 i	34 i	0 i	0 i	0 i
Mills C.	90	0	0	90	0	0	0	0	0	0
Occidental C.	86	10	0	0	76	80	4	0	0	76
Pepperdine U.	194	136	0	58	0	73	66	0	7	0
Pomona C.	219	219	0	0	0	219	219	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total										Federally financed									
	All R&D expenditures received		From higher education pass-through entities		From businesses		From nonprofit organizations		From other pass-through entities		All R&D expenditures received		From higher education pass-through entities		From businesses		From nonprofit organizations		From other pass-through entities	
Santa Clara U.	295		184		77		6		28		295		184		77		6		28	
Scripps Research Institute	25,017		17,074		723		6,927		293		22,542		15,969		723		5,557		293	
Stanford U.	126,692		82,197		15,747		25,392		3,356		98,100		67,746		9,051		20,506		797	
Touro U.	377		377		0		0		0		377		377		0		0		0	
U. of the Pacific	197		197		0		0		0		197		197		0		0		0	
U. San Diego	226		91		36		99		0		213		88		26		99		0	
U. San Francisco	25		16		0		9		0		16		16		0		0		0	
U. Southern California	81,804		52,166		10,089		17,544		2,005		74,639		47,313		9,785		15,899		1,642	
Western U. of Health Sciences	354		330		24		0		0		330		330		0		0		0	
Colorado																				
Public																				
Colorado School of Mines	10,806		5,870		3,518		837		581		9,722		5,870		3,206		374		272	
Colorado State U., Fort Collins	34,318		19,409		5,281		4,730		4,898		33,980		19,382		5,005		4,705		4,888	
Colorado State U., Pueblo	74		74		0		0		0		74		74		0		0		0	
Fort Lewis C.	65		65		0		0		0		65		65		0		0		0	
U. Colorado Boulder	66,097	i	31,612	i	12,050	i	6,835	i	15,600	i	64,145		31,086		11,486		6,439		15,134	
U. Colorado Colorado Springs	1,316		669		627		20		0		1,316		669		627		20		0	
U. Colorado Denver and Anschutz Medical Campus	62,206	i	33,336	i	8,862	i	10,598	i	9,410	i	59,363		32,362		8,393		10,113		8,495	
U. Northern Colorado	483		340		143		0		0		483		340		143		0		0	
U.S. Air Force Academy	0		0		0		0		0		0		0		0		0		0	
Private																				
Colorado C.	24		24		0		0		0		24		24		0		0		0	
U. Denver	5,562		3,251		867		1,407		37		5,294		3,044		845		1,368		37	
Connecticut																				
Public																				
Central Connecticut State U.	255		29		0		0		226		255		29		0		0		226	
Eastern Connecticut State U.	2		2		0		0		0		2		2		0		0		0	
Southern Connecticut State U.	640		436		21		183		0		332		311		21		0		0	
U. Connecticut	32,026		13,040		2,698		3,860		12,428		30,440		12,000		2,686		3,440		12,314	
Private																				

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Connecticut C.	94	94	0	0	0	94	94	0	0	0
Fairfield U.	72	72	0	0	0	72	72	0	0	0
Trinity C., Hartford	97	97	0	0	0	72	72	0	0	0
U. Hartford	76	25	0	51	0	76	25	0	51	0
U. New Haven	446	134	175	21	116	402	111	175	0	116
Wesleyan U.	787	551	92	142	2	570	480	0	90	0
Yale U.	75,714	39,289	5,729	26,656	4,040	69,818	36,190	5,543	24,067	4,018
Delaware										
Public										
Delaware State U.	1,611 i	1,611 i	0 i	0 i	0 i	1,611 i	1,611 i	0 i	0 i	0 i
U. Delaware	26,073 i	14,413 i	3,422 i	3,689 i	4,549 i	25,020	13,360	3,422	3,689	4,549
District of Columbia										
Public										
National Defense U.	0	0	0	0	0	0	0	0	0	0
U. of the District of Columbia	18	18	0	0	0	18	18	0	0	0
Private										
American U.	2,272	969	52	1,251	0	1,953	858	42	1,053	0
Catholic U. of America	7,949	3,401	4,012	536	0	7,949	3,401	4,012	536	0
Gallaudet U.	80	80	0	0	0	80	80	0	0	0
George Washington U.	25,017	12,514	2,502	8,268	1,733	21,478	12,112	2,397	5,807	1,162
Georgetown U.	16,833	9,625	3,024	3,960	224	14,778	8,776	2,955	2,872	175
Howard U.	7,263	4,441	94	691	2,037	5,940	3,749	0	154	2,037
Florida										
Public										
Florida A&M U.	3,542	1,261	1,469	201	611	3,542	1,261	1,469	201	611
Florida Atlantic U.	4,785	2,587	506	79	1,613	4,785	2,587	506	79	1,613
Florida Gulf Coast U.	1,325	1,216	0	59	50	847	738	0	59	50
Florida International U.	29,713	16,802	3,317	4,613	4,981	23,451	12,086	3,299	3,264	4,802
Florida Polytechnic U.	26	26	0	0	0	25	25	0	0	0
Florida State U.	15,377	10,306	1,566	1,409	2,096	14,188	9,456	1,566	1,361	1,805
U. Central Florida	26,319 i	10,308 i	8,968 i	2,551 i	4,492 i	23,803	9,447	8,623	2,143	3,590

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Florida	87,917	49,674	10,367	10,396	17,480	73,952	41,018	9,036	8,600	15,298
U. North Florida	1,726	609	111	83	923	686	408	40	40	198
U. South Florida, Saint Petersburg	4,365	56	0	0	4,309	4,357	48	0	0	4,309
U. South Florida, Sarasota-Manatee	10	0	0	10	0	10	0	0	10	0
U. South Florida, Tampa	47,547	10,391	1,977	4,407	30,772	46,415	9,773	1,936	3,968	30,738
U. West Florida	1,551	147	840	0	564	1,063	147	356	0	560
Private										
Embry-Riddle Aeronautical U.	3,971 i	2,147 i	219 i	0 i	1,605 i	3,423 i	1,663	175	0 i	1,585 i
Florida Institute of Technology	3,077	726	1,847	277	227	2,877	638	1,847	165	227
Nova Southeastern U.	1,863	1,566	175	25	97	1,445	1,305	18	25	97
U. Miami	30,063	21,810	2,223	4,448	1,582	25,885	19,417	1,706	3,608	1,154
Georgia										
Public										
Albany State U.	282	282	0	0	0	161	161	0	0	0
Augusta U.	4,231	3,470	519	202	40	4,231	3,470	519	202	40
Columbus State U.	0	0	0	0	0	0	0	0	0	0
Fort Valley State U.	495	495	0	0	0	495	495	0	0	0
Georgia Institute of Technology	45,446	1,031	42,134	2,223	58	43,123	1,031	39,891	2,187	14
Georgia Southern U.	521	497	0	24	0	520	496	0	24	0
Georgia State U.	16,945 i	8,478 i	2,300 i	1,797 i	4,370 i	13,463	7,569	1,481	681	3,732
Kennesaw State U.	434	255	28	10	141	371	255	28	10	78
Savannah State U.	385	385	0	0	0	385	385	0	0	0
U. Georgia	33,936	19,326	3,357	5,967	5,286	33,117	18,767	3,337	5,883	5,130
U. North Georgia	296	104	0	192	0	296	104	0	192	0
Private										
Clark Atlanta U.	249	249	0	0	0	249	249	0	0	0
Emory U.	76,491	47,598	7,859	18,137	2,897	62,808	44,660	2,330	14,441	1,377
Mercer U.	7,064	809	5,873	0	382	567	400	167	0	0
Morehouse C.	284	284	0	0	0	284	284	0	0	0
Morehouse School of Medicine	5,551 i	5,433 i	33 i	65 i	20 i	5,344	5,344	0	0	0
Spelman C.	231	231	0	0	0	231	231	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Hawaii										
Public										
U. Hawaii, Hilo	367	235	0	76	56	367	235	0	76	56
U. Hawaii, Manoa	23,913 i	6,629 i	1,430 i	6,963 i	8,891 i	23,741	6,584	1,430	6,836	8,891
U. Hawaii, system office	0	0	0	0	0	0	0	0	0	0
Private										
Hawaii Pacific U.	492	492	0	0	0	488	488	0	0	0
Idaho										
Public										
Boise State U.	7,599	3,968	328	3,065	238	7,405	3,779	323	3,065	238
Idaho State U.	2,976	1,526	308	96	1,046	2,547	1,526	308	39	674
U. Idaho	9,744	6,385	88	467	2,804	9,369	6,277	75	339	2,678
Illinois										
Public										
Illinois State U.	438	249	97	0	92	340	249	0	0	91
Northeastern Illinois U.	193	193	0	0	0	193	193	0	0	0
Northern Illinois U.	2,809	679	53	1,405	672	2,714	664	53	1,327	670
Southern Illinois U., Carbondale	3,814 i	1,281 i	416 i	117 i	2,000 i	3,238	1,126	249	0	1,863
Southern Illinois U., Edwardsville	819	273	0	157	389	815	269	0	157	389
U. Illinois, Chicago	38,363	23,649	3,560	8,116	3,038	37,668	23,156	3,418	8,056	3,038
U. Illinois, Springfield	0	0	0	0	0	0	0	0	0	0
U. Illinois, Urbana-Champaign	43,623	27,338	10,718	4,244	1,323	38,314	23,313	10,610	3,530	861
Western Illinois U.	495	88	7	0	400	95	88	7	0	0
Private										
Bradley U.	220	220	0	0	0	220	220	0	0	0
DePaul U.	954	764	0	190	0	954	764	0	190	0
Erikson Institute	86	0	0	86	0	0	0	0	0	0
Illinois Institute of Technology	4,974	2,105	523	347	1,999	4,586	1,950	523	114	1,999
Loyola U., Chicago	6,005	4,973	303	489	240	5,006	4,107	302	357	240
Midwestern U.	30	30	0	0	0	30	30	0	0	0
Northwestern U.	78,852	44,382	20,187	13,974	309	54,562	39,410	4,823	10,285	44

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Rosalind Franklin U. of Medicine and Science	707	707	0	0	0	707	707	0	0	0
Rush U.	18,654	13,938	0	2,754	1,962	16,804	12,530	0	2,313	1,961
Toyota Technological Institute, Chicago	626	617	0	9	0	617	617	0	0	0
U. Chicago	77,217	50,932	16,888	6,983	2,414	73,563	48,693	16,814	6,301	1,755
Wheaton C., Wheaton	175	175	0	0	0	14	14	0	0	0
Indiana										
Public										
Ball State U.	1,444	755	394	28	267	755	755	0	0	0
Indiana State U.	326	26	0	14	286	326	26	0	14	286
Indiana U., Bloomington	49,393	29,332	4,361	12,376	3,324	40,612	24,593	3,610	9,293	3,116
Indiana U.-Purdue U., Indianapolis	6,021	3,109	470	1,162	1,280	4,949	2,550	445	1,133	821
Purdue U., Fort Wayne	448	29	73	3	343	8	0	5	3	0
Purdue U., Northwest	949	288	96	2	563	237	69	96	0	72
Purdue U., West Lafayette	71,684	30,925	9,877	7,102	23,780	42,142	28,180	9,179	2,977	1,806
Private										
U. Notre Dame	29,894	10,913	11,856	2,963	4,162	26,744	9,519	11,525	1,908	3,792
Iowa										
Public										
Iowa State U.	29,005	11,989	5,502	2,622	8,892	25,898	10,343	4,555	2,508	8,492
U. Iowa	17,337	3,698	1,419	2,292	9,928	17,337	3,698	1,419	2,292	9,928
U. Northern Iowa	606	264	0	0	342	606	264	0	0	342
Private										
Des Moines U.	334	125	189	20	0	129	125	0	4	0
Grinnell C.	238	238	0	0	0	77	77	0	0	0
Palmer C. of Chiropractic, Davenport	0	0	0	0	0	0	0	0	0	0
Kansas										
Public										
Fort Hays State U.	980	274	138	4	564	764	252	0	0	512
Kansas State U.	13,030	5,939	1,982	3,002	2,107	11,354	5,195	1,982	2,161	2,016
Pittsburg State U.	237	138	0	0	99	237	138	0	0	99
U. Kansas	32,231	11,788	3,568	4,956	11,919	31,216	11,307	3,543	4,678	11,688

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Wichita State U.	4,624	1,544	1,058	1,110	912	3,964	1,491	899	694	880
Kentucky										
Public										
Eastern Kentucky U.	338	279	4	0	55	334	279	0	0	55
Kentucky State U.	61	61	0	0	0	61	61	0	0	0
Morehead State U.	753	705	0	0	48	753	705	0	0	48
Murray State U.	591	488	27	25	51	508	475	0	19	14
Northern Kentucky U.	442	351	0	0	91	442	351	0	0	91
U. Kentucky	35,763 i	14,516	3,797 i	3,181 i	14,269 i	32,767	12,521	3,429	2,801	14,016
U. Louisville	17,907	6,652	5,082	3,183	2,990	12,940	5,943	1,108	2,911	2,978
Western Kentucky U.	1,909	1,320	217	371	1	1,194	842	64	288	0
Louisiana										
Public										
Grambling State U.	617	511	0	43	63	57	14	0	43	0
Louisiana State U., Baton Rouge	25,000	17,010	2,450	2,236	3,304	21,675	14,748	2,210	1,915	2,802
Louisiana State U., Health Sciences Center, New Orleans	4,930	3,166	275	482	1,007	4,828	3,128	275	437	988
Louisiana State U., Health Sciences Center, Shreveport	321	310	11	0	0	285	284	1	0	0
Louisiana Tech U.	5,119 i	853 i	746 i	2,040 i	1,480 i	4,601	699	633	1,879	1,390
Northwestern State U. Louisiana	1	0	0	1	0	1	0	0	1	0
Southeastern Louisiana U.	764	636	0	15	113	764	636	0	15	113
Southern U. and A&M C., Agricultural Research and Extension Center	86	86	0	0	0	86	86	0	0	0
Southern U. and A&M C., Baton Rouge	311	0	311	0	0	0	0	0	0	0
U. Louisiana, Lafayette	9,331	3,441	573	529	4,788	7,714	2,347	550	29	4,788
U. Louisiana, Monroe	1,269	1,058	0	0	211	1,264	1,053	0	0	211
U. New Orleans	1,479	251	46	532	650	1,331	251	46	384	650
Private										
Dillard U.	68	22	0	0	46	0	0	0	0	0
Tulane U.	24,536	16,218	2,483	4,637	1,198	21,468	15,437	2,146	3,058	827
Xavier U. Louisiana	1,428	606	20	11	791	653	606	0	11	36

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Maine										
Public										
U. Maine	17,110	4,098	5,686	22	7,304	15,781	3,967	5,686	7	6,121
U. Southern Maine	936	786	0	150	0	923	773	0	150	0
Private										
Bates C.	537	130	0	407	0	537	130	0	407	0
Bowdoin C.	280	120	0	160	0	280	120	0	160	0
Colby C.	364	55	0	0	309	364	55	0	0	309
U. New England	349	264	0	59	26	332	263	0	43	26
Maryland										
Public										
Bowie State U.	515	515	0	0	0	515	515	0	0	0
Morgan State U.	4,527	1,097	710	2,720	0	4,511	1,081	710	2,720	0
Salisbury U.	716	487	0	229	0	564	335	0	229	0
Towson U.	302	91	112	67	32	205	46	101	26	32
U. Baltimore	4,080	308	0	1,165	2,607	4,080	308	0	1,165	2,607
U. Maryland[a]	77,354	35,296	6,119	20,094	15,845	66,989	33,061	5,567	13,825	14,536
U. Maryland Center for Environmental Science	3,488	1,476	136	792	1,084	2,370	1,299	29	172	870
U. Maryland, Baltimore County	18,626	12,836	209	775	4,806	18,586	12,796	209	775	4,806
U. Maryland, Eastern Shore	37	37	0	0	0	37	37	0	0	0
U.S. Naval Academy	2,546	349	0	2,197	0	2,197	0	0	2,197	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U.[b]	122,796	68,823	9,825	33,119	11,029	97,895	57,395	8,562	22,373	9,565
Massachusetts										
Public										
Framingham State U.	10	10	0	0	0	10	10	0	0	0
U. Massachusetts, Amherst	19,988	9,983	3,486	2,381	4,138	18,533	9,268	3,414	2,157	3,694
U. Massachusetts, Boston	11,756	3,313	650	3,950	3,843	9,533	2,596	650	2,444	3,843
U. Massachusetts, central office	606	448	2	138	18	202	75	2	125	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Massachusetts, Dartmouth	2,130	669	134	1,072	255	2,123	662	134	1,072	255
U. Massachusetts, Lowell	8,328 i	3,909 i	1,726 i	2,002 i	691 i	7,625	3,668	1,609	1,883	465
U. Massachusetts, Medical School	23,731	11,630	3,266	8,744	91	21,697	10,427	3,027	8,152	91
Private										
Amherst C.	52	52	0	0	0	52	52	0	0	0
Babson C.	29 i	29 i	0 i	0 i	0 i	14	14	0	0	0
Boston C.	3,858	1,362	362	1,444	690	2,524	875	357	614	678
Boston U.	56,498	31,255	3,634	17,855	3,754	53,036	29,209	3,274	17,301	3,252
Brandeis U.	6,159	3,003	1,632	429	1,095	5,687	2,860	1,561	334	932
Clark U.	638	534	0	90	14	621	534	0	87	0
Emerson C.	32	32	0	0	0	32	32	0	0	0
Franklin W. Olin C. of Engineering	187	187	0	0	0	187	187	0	0	0
Harvard U.	106,462	49,108	5,827	23,588	27,939	90,128	45,685	4,618	17,262	22,563
Massachusetts Institute of Technology	121,803	73,040	19,220	26,012	3,531	101,635	62,860	18,597	19,691	487
Merrimack C.	132	71	0	61	0	131	71	0	60	0
MGH Institute of Health Professions	369	369	0	0	0	369	369	0	0	0
Mount Holyoke C.	356	356	0	0	0	356	356	0	0	0
New England C. of Optometry	73	73	0	0	0	73	73	0	0	0
Northeastern U.	22,835	12,072	4,119	5,489	1,155	21,376	11,301	4,048	5,099	928
Smith C.	889	429	53	407	0	397	376	0	21	0
Stonehill C.	363	0	0	363	0	363	0	0	363	0
Suffolk U.	48	38	0	10	0	38	28	0	10	0
Tufts U.	20,480	9,736	41	768	9,935	18,879	9,000	0	0	9,879
Wellesley C.	966	405	0	561	0	965	405	0	560	0
Williams C.	88 i	88 i	0 i	0 i	0 i	88 i	88 i	0 i	0 i	0 i
Woods Hole Oceanographic Institution	17,665	8,410	7,349	1,544	362	16,263	7,759	7,300	956	248
Worcester Polytechnic Institute	5,486	1,583	2,451	1,313	139	5,153	1,424	2,333	1,293	103
Michigan										
Public										
Central Michigan U.	1,465	1,031	0	105	329	1,417	983	0	105	329
Eastern Michigan U.	288	167	0	103	18	288	167	0	103	18

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Grand Valley State U.	625	254	0	0	371	421	235	0	0	186
Michigan State U.	50,654	34,840	3,115	7,974	4,725	46,907	32,595	3,071	7,312	3,929
Michigan Technological U.	10,415 i	2,537 i	4,932 i	1,592 i	1,354 i	9,839	2,340	4,837	1,495	1,167
Northern Michigan U.	62	55	0	7	0	62	55	0	7	0
Oakland U.	851	740	55	17	39	810	716	55	0	39
Saginaw Valley State U.	140	2	0	12	126	140	2	0	12	126
U. Michigan, Ann Arbor	147,778	71,444	17,433	40,444	18,457	124,707	62,458	11,204	34,921	16,124
U. Michigan, Dearborn	677	99	350	228	0	667	99	350	218	0
U. Michigan, Flint	46	38	0	5	3	32	32	0	0	0
Wayne State U.	19,356 i	9,523 i	3,509 i	2,957 i	3,367 i	16,269	8,690	2,616	2,330	2,633
Western Michigan U. and Homer Stryker M.D. School of Medicine	1,556	502	378	311	365	1,438	485	277	311	365
Private										
Albion C.	49	49	0	0	0	49	49	0	0	0
Andrews U.	123	123	0	0	0	123	123	0	0	0
Calvin U.	400 i	0 i	0 i	53 i	347 i	347 i	0 i	0 i	0 i	347 i
Hope C.	440	53	0	387	0	440	53	0	387	0
Kettering U.	249	149	0	0	100	149	149	0	0	0
Lawrence Technological U.	116	15	0	0	101	116	15	0	0	101
U. Detroit Mercy	129	61	55	0	13	129	61	55	0	13
Van Andel Research Institute	2,838	955	1,756	84	43	2,554	869	1,558	84	43
Minnesota										
Public										
Minnesota State U., Mankato	365 i	173 i	49 i	48 i	95 i	325 i	158 i	43 i	42 i	82 i
St. Cloud State U.	74	35	0	0	39	38	26	0	0	12
U. Minnesota, Duluth	1,174	724	10	0	440	1,133	724	6	0	403
U. Minnesota, Morris	0	0	0	0	0	0	0	0	0	0
U. Minnesota, Twin Cities	94,362	54,720	16,033	1,617	21,992	85,282	49,735	14,979	1,364	19,204
Private										
C. of Saint Benedict	7 i	7 i	0 i	0 i	0 i	7 i	7 i	0 i	0 i	0 i
Carleton C.	403	403	0	0	0	403	403	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Macalester C.	99	29	0	70	0	99	29	0	70	0
Saint John's U., Collegeville	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
St. Olaf C.	33	10	0	23	0	10	10	0	0	0
U. of St. Thomas (MN)	93	92	1	0	0	88	87	1	0	0
Mississippi										
Public										
Alcorn State U.	137	137	0	0	0	137	137	0	0	0
Jackson State U.	2,577	2,439	0	24	114	2,577	2,439	0	24	114
Mississippi State U.	25,577	8,774	4,986	762	11,055	24,770	7,967	4,986	762	11,055
U. Mississippi	14,253	6,684	3,353	2,214	2,002	12,714	6,519	3,325	1,680	1,190
U. Southern Mississippi	13,566	7,690	815	1,835	3,226	10,288	7,440	815	118	1,915
Private										
Tougaloo C.	336	336	0	0	0	336	336	0	0	0
Missouri										
Public										
Lincoln U., Jefferson City	171	171	0	0	0	171	171	0	0	0
Missouri State U.	814	360	167	15	272	798	344	167	15	272
Missouri U. of Science and Technology	14,004	2,360	7,587	3,127	930	7,230	1,148	2,983	2,552	547
U. Missouri, Columbia	80,003	14,658	12,317	14,244	38,784	27,637	11,784	2,929	3,602	9,322
U. Missouri, Kansas City	10,427	2,273	1,754	5,860	540	7,930	2,142	790	4,806	192
U. Missouri, Saint Louis	3,821	956	91	2,665	109	860	656	0	139	65
Private										
Saint Louis U.	8,035	4,939	668	1,654	774	7,116	4,726	556	1,223	611
U. of Health Sciences and Pharmacy in St. Louis	325	325	0	0	0	325	325	0	0	0
Washington U., Saint Louis	69,908	45,117	13,467	7,164	4,160	57,770	42,298	5,593	6,266	3,613
Montana										
Public										
Montana State U., Bozeman	11,000	6,600	3,079	564 i	757 i	9,415	5,649	2,636	522 i	608 i
Montana Technological U.	763	616	4	101	42	748	616	4	101	27
Salish Kootenai C.	169	169	0	0	0	164	164	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Montana, Missoula	16,672 i	6,977 i	1,143 i	1,561 i	6,991 i	15,274	6,723	746	1,085	6,720
Nebraska										
Public										
U. Nebraska, central administration	684	0	0	684	0	684	0	0	684	0
U. Nebraska, Kearney	1,405	867	0	0	538	1,068	860	0	0	208
U. Nebraska, Lincoln	23,528	11,720	320	3,770	7,718	23,403	11,595	320	3,770	7,718
U. Nebraska, Medical Center	34,666	11,255	10,859	9,172	3,380	15,409	9,756	1,721	2,884	1,048
U. Nebraska, Omaha	3,660 i	2,181 i	200 i	1,211 i	68 i	3,575	2,113	195	1,206	61
Private										
Creighton U.	4,471 i	2,950 i	26 i	1,495 i	0 i	4,471 i	2,950 i	26 i	1,495 i	0 i
Doane U.	352 i	352 i	0 i	0 i	0 i	352 i	352 i	0 i	0 i	0 i
Nevada										
Public										
Desert Research Institute	4,315	1,747	2,109	352	107	4,026	1,480	2,109	352	85
U. Nevada, Las Vegas	9,018 i	2,037 i	2,104 i	1,817 i	3,060 i	6,974	1,431	1,658	1,182	2,703
U. Nevada, Reno	13,235	7,839	1,760	1,138	2,498	10,721	5,627	1,732	1,105	2,257
Private										
Roseman U. of Health Sciences	139	139	0	0	0	56	56	0	0	0
New Hampshire										
Public										
Keene State C.	786	775	0	11	0	786	775	0	11	0
U. New Hampshire	27,861	12,820	2,369	5,779	6,893	24,684	11,898	2,369	5,524	4,893
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	23,607	12,670	2,138	7,938	861	19,784	10,618	1,865	6,783	518
New Jersey										
Public										
C. New Jersey	46	37	0	9	0	46	37	0	9	0
Kean U.	65	65	0	0	0	65	65	0	0	0
Montclair State U.	1,355	1,008	8	231	108	996	837	8	81	70
New Jersey City U.	0	0	0	0	0	0	0	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
New Jersey Institute of Technology	36,894	3,100	1,632	94	32,068	36,441	3,085	1,423	88	31,845
Rowan U.	2,553	1,439	701	87	326	2,521	1,407	701	87	326
Rutgers, State U. New Jersey, Camden	186 i	105 i	54 i	17 i	10 i	130	90	40	0	0
Rutgers, State U. New Jersey, New Brunswick	51,880 i	29,311 i	7,644 i	7,449 i	7,476 i	51,831	29,296	7,644	7,449	7,442
Rutgers, State U. New Jersey, Newark	2,340 i	1,313 i	228 i	100 i	699 i	2,012	1,223	146	0	643
Stockton U.	300	287	13	0	0	0	0	0	0	0
William Paterson U.	1,015	81	22	87	825	1,015	81	22	87	825
Private										
Monmouth U.	61	18	0	1	42	0	0	0	0	0
Princeton U.	37,970	27,279	5,108	272	5,311	32,548	22,760	4,824	94	4,870
Seton Hall U.	51	51	0	0	0	51	51	0	0	0
Stevens Institute of Technology	6,551	1,945	4,043	276	287	6,277	1,700	4,040	276	261
New Mexico										
Public										
New Mexico Highlands U.	119	119	0	0	0	119	119	0	0	0
New Mexico Institute of Mining and Technology	9,726	1,623	2,391	4,379	1,333	9,726	1,623	2,391	4,379	1,333
New Mexico State U.	13,652	5,504	7,383	158	607	13,287	5,504	7,373	108	302
U. New Mexico	40,543	15,416	12,587	5,170	7,370	39,627	15,274	12,537	4,978	6,838
New York										
Public										
CUNY, Advanced Science Research Center	1,321	1,096	80	145	0	1,309	1,084	80	145	0
CUNY, Baruch C.	568	392	40	136	0	377	295	40	42	0
CUNY, Brooklyn C.	462	303	0	159	0	462	303	0	159	0
CUNY, C. Staten Island	223	222	0	1	0	99	98	0	1	0
CUNY, City C.	5,936	4,083	250	1,603	0	5,615	3,817	238	1,560	0
CUNY, Graduate Center	1,161	1,018	0	143	0	1,108	965	0	143	0
CUNY, Graduate School of Public Health and Health Policy	3,993	2,388	0	1,605	0	3,315	2,341	0	974	0
CUNY, Hunter C.	5,394	4,495	487	403	9	5,026	4,390	373	263	0
CUNY, John Jay C. of Criminal Justice	1,086	268	38	135	645	887	232	38	107	510

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

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	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
CUNY, Lehman C.	422	328	0	0	94	97	97	0	0	0
CUNY, Medgar Evers C.	113	107	0	6	0	107	107	0	0	0
CUNY, New York City C. of Technology	83	0	0	83	0	83	0	0	83	0
CUNY, Queens C.	836	836	0	0	0	596	596	0	0	0
CUNY, system office	450	306	105	39	0	118	0	79	39	0
CUNY, York C.	238	206	0	32	0	238	206	0	32	0
SUNY, Binghamton U.	7,198	2,102	1,926	2,635	535	7,151	2,102	1,882	2,632	535
SUNY, Buffalo State	596	483	0	0	113	584	483	0	0	101
SUNY, C. Brockport	313	293	3	17	0	313	293	3	17	0
SUNY, C. of Environmental Science and Forestry	1,786	437	117	956	276	1,502	406	44	956	96
SUNY, C. of Optometry	0	0	0	0	0	0	0	0	0	0
SUNY, C. Plattsburgh	254	211	17	26	0	244	201	17	26	0
SUNY, Downstate Medical Center	3,893	3,661	84	148	0	3,845	3,613	84	148	0
SUNY, Geneseo	8	0	0	8	0	8	0	0	8	0
SUNY, Oswego	84	3	0	81	0	84	3	0	81	0
SUNY, Polytechnic Institute	3,581	476	2,545	0	560	3,025	440	2,473	0	112
SUNY, Stony Brook U.	19,151	10,044	2,387	6,465	255	18,031	9,455	2,318	6,110	148
SUNY, U. Albany	8,418	4,882	1,402	1,461	673	8,217	4,796	1,364	1,384	673
SUNY, U. Buffalo	15,152	9,245	2,667	901	2,339	14,109	8,592	2,627	846	2,044
SUNY, Upstate Medical U.	3,888	2,037	164	849	838	3,505	1,716	164	849	776
U.S. Military Academy	126	0	0	0	126	0	0	0	0	0
Private										
Albany C. of Pharmacy and Health Sciences	406	374	0	32	0	406	374	0	32	0
Albany Medical C.	932	698	0	234	0	932	698	0	234	0
Albert Einstein C. of Medicine	21,788	17,318	2,130	2,320	20	20,299	16,658	1,971	1,650	20
Alfred U.	201	149	0	0	52	201	149	0	0	52
Barnard C.	250	187	7	56	0	187	187	0	0	0
Clarkson U.	1,778	1,123	471	184	0	1,246	762	323	161	0
Cold Spring Harbor Laboratory	9,350 i	5,189 i	1,504 i	1,995 i	662 i	8,437 i	4,824 i	1,331 i	1,703 i	579 i
Colgate U.	100	100	0	0	0	100	100	0	0	0

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Columbia U. in the City of New York	116,454	70,233	11,325	14,485	20,411	99,769	65,200	9,935	9,377	15,257
Cornell U.	88,778	56,014	4,966	25,363	2,435	75,143	48,345	4,879	19,949	1,970
Fordham U.	1,286	1,028	0	40	218	1,286	1,028	0	40	218
Hamilton C.	40	40	0	0	0	40	40	0	0	0
Hobart and William Smith Colleges	252	38	0	214	0	241	27	0	214	0
Hofstra U.	237	22	0	215	0	31	19	0	12	0
Icahn School of Medicine at Mount Sinai	62,246	40,656	1,636	18,406	1,548	56,820	36,680	1,636	17,192	1,312
Ithaca C.	743 i	723 i	0 i	0 i	20 i	723 i	723 i	0 i	0 i	0 i
Long Island U.	267	83	0	184	0	267	83	0	184	0
Manhattan C.	14	14	0	0	0	14	14	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	0	0	0	0	0	0	0	0	0	0
New School	865	103	101	623	38	165	64	101	0	0
New York Institute of Technology	76	76	0	0	0	76	76	0	0	0
New York Medical C.	1,205 i	1,039	166	0 i	0 i	1,119 i	953	166	0 i	0 i
New York U.	70,047	36,164	5,202	25,222	3,459	61,296	34,616	4,654	20,357	1,669
Niagara U.	68	36	0	19	13	23	18	0	5	0
Pace U.	81	62	0	19	0	81	62	0	19	0
Rensselaer Polytechnic Institute	15,975	10,783	4,609	582	1	10,845	6,798	3,828	219	0
Rochester Institute of Technology	8,068	2,120	2,741	2,865	342	6,122	2,017	2,588	1,372	145
Rockefeller U.	12,349	7,343	0	5,006	0	11,483	7,343	0	4,140	0
Skidmore C.	18	18	0	0	0	18	18	0	0	0
St. Bonaventure U.	0	0	0	0	0	0	0	0	0	0
St. John's U., New York	201 i	201 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Syracuse U.	5,525	3,744	771	982	28	4,755	3,008	771	968	8
Teachers C., Columbia U.	2,986	1,824	0	509	653	1,590	878	0	412	300
U. Rochester	29,015	20,258	7,204	1,413	140	28,439	19,682	7,204	1,413	140
Union C., Schenectady	39	34	0	0	5	34	34	0	0	0
Vassar C.	335	267	0	43	25	221	178	0	43	0
Yeshiva U.	62	62	0	0	0	62	62	0	0	0

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North Carolina										
Public										
Appalachian State U.	189	189	0	0	0	189	189	0	0	0
East Carolina U.	5,183	3,612	235	800	536	4,108	2,757	235	800	316
Elizabeth City State U.	279	279	0	0	0	279	279	0	0	0
Fayetteville State U.	421	421	0	0	0	0	0	0	0	0
North Carolina Agricultural and Technical State U.	3,273	2,591	297	336	49	3,273	2,591	297	336	49
North Carolina Central U.	1,734	1,234	10	490	0	663	397	10	256	0
North Carolina State U.	38,867 i	32,631 i	3,670 i	1,640 i	926 i	30,030 i	29,604	114 i	112 i	200 i
U. North Carolina, Asheville	1,099	943	2	75	79	986	872	0	58	56
U. North Carolina, Chapel Hill	136,715	69,929	12,904	20,306	33,576	118,950	59,048	12,066	14,608	33,228
U. North Carolina, Charlotte	7,237	3,192	2,106	206	1,733	7,030	3,166	1,926	206	1,732
U. North Carolina, general administration	0	0	0	0	0	0	0	0	0	0
U. North Carolina, Greensboro	5,511	3,666	0	101	1,744	5,511	3,666	0	101	1,744
U. North Carolina, Wilmington	3,276	1,395	940	35	906	2,550	1,126	852	13	559
Western Carolina U.	278	173	0	70	35	278	173	0	70	35
Winston-Salem State U.	391	391	0	0	0	391	391	0	0	0
Private										
Davidson C.	77	77	0	0	0	77	77	0	0	0
Duke U.	116,116 i	74,083 i	12,943 i	21,313 i	7,777 i	102,397	67,976	10,445	18,013	5,963
Elon U.	56	56	0	0	0	41	41	0	0	0
Johnson C. Smith U.	110	0	10	100	0	0	0	0	0	0
Wake Forest U.	57,726	40,054	679	10,847	6,146	37,461	19,975	679	10,661	6,146
North Dakota										
Public										
North Dakota State U.	8,472	3,368	684	250	4,170	8,149	3,160	627	231	4,131
U. North Dakota	8,795	3,828	2,483	600	1,884	8,237	3,827	2,051	567	1,792
Ohio										
Public										
Air Force Institute of Technology	437	143	294	0	0	437	143	294	0	0

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Bowling Green State U.	1,693	823	73	593	204	1,321	570	32	563	156
Central State U.	63	63	0	0	0	63	63	0	0	0
Cleveland State U.	547	515	0	32	0	529	515	0	14	0
Kent State U.	3,914	1,575	499	598	1,242	3,482	1,364	495	419	1,204
Miami U.	3,160	1,873	551	271	465	3,021	1,813	548	195	465
Northeast Ohio Medical U.	700	373	95	232	0	615	368	49	198	0
Ohio State U.	133,404	42,235	17,244	24,604	49,321	117,016	37,884	11,501	19,508	48,123
Ohio U.	4,251	1,281	1,290	69	1,611	3,791	1,171	1,056	69	1,495
U. Akron	4,048	1,031	2,309	429	279	3,853	975	2,217	402	259
U. Cincinnati	55,296	32,403	5,124	15,630	2,139	47,032	29,640	4,885	10,468	2,039
U. Toledo	7,507	2,924	2,543	1,347	693	6,574	2,408	2,348	1,128	690
Wright State U.	12,344	7,474	2,726	1,550	594	6,935	3,198	2,428	1,172	137
Youngstown State U.	2,804	390	130	2,284	0	2,719	390	130	2,199	0
Private										
C. Wooster	74	74	0	0	0	74	74	0	0	0
Case Western Reserve U.	52,399	36,284	5,265	9,040	1,810	46,516	33,495	5,000	6,701	1,320
Heidelberg U.	82	82	0	0	0	82	82	0	0	0
Kenyon C.	43	43	0	0	0	43	43	0	0	0
Oberlin C.	141	80	0	61	0	141	80	0	61	0
U. Dayton	27,203	1,413	18,687	4,590	2,513	27,063	1,360	18,685	4,590	2,428
Oklahoma										
Public										
Langston U.	422	422	0	0	0	419	419	0	0	0
Oklahoma State U., Center for Health Sciences	223	207	0	0	16	211	195	0	0	16
Oklahoma State U., Stillwater	11,574	3,992	1,337	2,064	4,181	11,059	3,706	1,286	2,064	4,003
U. Central Oklahoma	798 i	364 i	0 i	38 i	396 i	739 i	343 i	0 i	0 i	396 i
U. Oklahoma, Norman and Health Science Center	22,159	10,535	1,773	3,679	6,172	21,576	10,120	1,753	3,531	6,172
U. Oklahoma, Tulsa	1,071	723	10	154	184	1,071	723	10	154	184
Private										

TABLE 75

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	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Tulsa	399	189	62	99	49	389	180	62	98	49
Oregon										
Public										
Oregon Health and Science U.	52,086	23,725	11,602	9,411	7,348	38,432	21,519	9,940	1,124	5,849
Oregon Institute of Technology	252 i	142 i	4 i	19 i	87 i	50	50	0	0	0
Oregon State U.	42,282	16,665	4,238	12,242	9,137	39,551	15,592	3,952	10,932	9,075
Portland State U.	7,070	4,452	1,205	609	804	5,843	3,705	1,030	497	611
U. Oregon	14,830	8,025	2,208	3,500	1,097	13,709	7,565	2,208	2,925	1,011
Private										
Lewis and Clark C.	53	53	0	0	0	35	35	0	0	0
National U. of Natural Medicine	256	256	0	0	0	256	256	0	0	0
Pacific U.	397	397	0	0	0	379	379	0	0	0
Reed C.	270	154	0	0	116	270	154	0	0	116
Willamette U.	71	71	0	0	0	71	71	0	0	0
Pennsylvania										
Public										
Indiana U. Pennsylvania	601	503	0	27	71	326	238	0	27	61
Pennsylvania State U., Behrend	286	255	31	0	0	201	170	31	0	0
Pennsylvania State U., Harrisburg	39	39	0	0	0	39	39	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	86,146 i	42,488	12,246 i	15,489 i	15,923 i	52,322	33,822	5,063 i	6,335 i	7,102 i
Temple U.	25,721	16,389	3,629	5,703	0	23,879	14,599	3,629	5,651	0
U. Pittsburgh, Pittsburgh	108,150 i	58,908	11,937 i	32,001 i	5,304 i	96,482	52,073	10,399	29,906	4,104
West Chester U. Pennsylvania	314	305	0	9	0	251	251	0	0	0
Private										
Bryn Mawr C.	112	112	0	0	0	112	112	0	0	0
Bucknell U.	415 i	172 i	96 i	98 i	49 i	380 i	161 i	96 i	86 i	37 i
Carnegie Mellon U.	56,196	24,064	26,116	5,939	77	52,629	21,240	25,502	5,887	0
Dickinson C.	172	21	0	73	78	85	21	0	64	0
Drexel U.	23,058	11,443	3,904	4,640	3,071	20,204	10,434	3,803	3,248	2,719
Duquesne U.	912	660	0	187	65	309	142	0	105	62

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Franklin and Marshall C.	424	145	0	279	0	424	145	0	279	0
Gettysburg C.	11	11	0	0	0	11	11	0	0	0
Haverford C.	187	171	0	16	0	138	136	0	2	0
La Salle U.	14	14	0	0	0	14	14	0	0	0
Lafayette C.	156	156	0	0	0	156	156	0	0	0
Lehigh U.	5,156	3,266	1,560	0	330	5,020	3,130	1,560	0	330
Mercyhurst U.	50 i	0 i	16 i	26 i	8 i	36 i	0 i	12 i	19 i	5 i
Philadelphia C. of Osteopathic Medicine	945	422	0	523	0	422	422	0	0	0
Saint Joseph's U.	178	155	0	23	0	178	155	0	23	0
Swarthmore C.	91	26	0	65	0	91	26	0	65	0
Thomas Jefferson U.	7,127	4,937	407	1,764	19	6,368	4,575	313	1,478	2
U. of the Sciences Philadelphia	205	171	34	0	0	176	143	33	0	0
U. Pennsylvania	97,092	49,032	7,836	37,587	2,637	84,687	45,180	6,899	30,122	2,486
Villanova U.	1,339	211	674	454	0	716	119	143	454	0
Rhode Island										
Public										
Naval War C.	0	0	0	0	0	0	0	0	0	0
Rhode Island C.	1,249	739	0	0	510	1,249	739	0	0	510
U. Rhode Island	13,136	7,083	1,885	2,405	1,763	12,634	6,990	1,563	2,393	1,688
Private										
Brown U.	32,051	14,535	2,384	11,750	3,382	29,516	13,316	1,622	11,196	3,382
Providence C.	364	364	0	0	0	364	364	0	0	0
Rhode Island School of Design	228 i	191 i	0 i	0 i	37 i	191 i	191 i	0 i	0 i	0 i
Roger Williams U.	716	618	0	5	93	690	597	0	0	93
South Carolina										
Public										
C. Charleston	759	422	14	207	116	489	347	14	12	116
Citadel Military C. South Carolina	242	146	0	96	0	242	146	0	96	0
Clemson U.	21,364 i	9,273 i	3,227 i	3,184 i	5,680 i	19,343	8,531 i	2,850 i	2,793 i	5,169 i
Coastal Carolina U.	682	104	0	371	207	682	104	0	371	207
Medical U. South Carolina	22,789	13,078	6,945	2,694	72	18,238	12,152	4,271	1,743	72

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
South Carolina State U.	1,264 i	1,114 i	48 i	54 i	48 i	1,264 i	1,114 i	48 i	54 i	48 i
U. South Carolina, Aiken	1,422	83	8	1,331	0	1,422	83	8	1,331	0
U. South Carolina, Columbia	16,598	3,136	767	4,225	8,470	12,629	2,346	661	1,420	8,202
Winthrop U.	576	296	0	0	280	340	296	0	0	44
Private										
Benedict C.	122	98	0	24	0	122	98	0	24	0
Claflin U.	716	716	0	0	0	716	716	0	0	0
Furman U.	1,002	954	0	38	10	847	847	0	0	0
South Dakota										
Public										
Black Hills State U.	996	912	0	0	84	980	896	0	0	84
Dakota State U.	131	130	0	0	1	131	130	0	0	1
South Dakota School of Mines and Technology	3,614	1,168	1,895	446	105	3,285	945	1,789	446	105
South Dakota State U.	8,057	3,473	517	305	3,762	6,038	2,596	305	236	2,901
U. South Dakota	2,543	2,045	37	306	155	1,852	1,354	37	306	155
Tennessee										
Public										
Austin Peay State U.	148	14	0	0	134	148	14	0	0	134
East Tennessee State U.	630	439	88	59	44	439	439	0	0	0
Middle Tennessee State U.	1,233	261	0	797	175	492	255	0	62	175
Tennessee State U.	1,036	548	186	273	29	1,015	527	186	273	29
Tennessee Technological U.	3,742	1,106	679	617	1,340	2,584	1,079	345	484	676
U. Memphis	5,715	2,768	488	536	1,923	5,150	2,405	471	410	1,864
U. Tennessee, Chattanooga	1,022 i	520 i	57 i	159 i	286 i	821	483	0	91	247
U. Tennessee, Health Science Center	6,453 i	5,103 i	293 i	753 i	304 i	5,742	4,860	180	631	71
U. Tennessee, Knoxville[c]	34,594 i	14,708 i	2,926 i	11,897 i	5,063 i	32,085	13,850	2,557	11,481	4,197
Private										
Fisk U.	596	332	206	58	0	596	332	206	58	0
Lipscomb U.	82 i	48 i	11 i	17 i	6 i	71 i	43 i	9 i	14 i	5 i
Meharry Medical C.	1,805	1,803	0	2	0	1,805	1,803	0	2	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Vanderbilt U. and Vanderbilt U. Medical Center	81,733 i	45,469 i	20,433 i	5,847 i	9,984 i	76,889	42,139	20,027	4,892	9,831
Texas										
Public										
Lamar U.	164	152	0	0	12	152	152	0	0	0
Midwestern State U.	0	0	0	0	0	0	0	0	0	0
Prairie View A&M U.	206	69	0	50	87	149	69	0	50	30
Sam Houston State U.	1,054	176	0	12	866	879	106	0	12	761
Stephen F. Austin State U.	173	5	0	23	145	173	5	0	23	145
Sul Ross State U.	486 i	26 i	0 i	0 i	460 i	372 i	26 i	0 i	0 i	346 i
Tarleton State U.	1,116	116	0	0	1,000	633	116	0	0	517
Texas A&M International U.	190	66	0	124	0	190	66	0	124	0
Texas A&M U., College Station and Health Science Center	232,755	35,927	14,821	10,598	171,409	212,166	30,927	13,171	10,170	157,898
Texas A&M U.-Commerce	330	230	0	100	0	202	102	0	100	0
Texas A&M U.-Corpus Christi	8,483	5,573	53	927	1,930	8,289	5,570	53	927	1,739
Texas A&M U.-Kingsville	1,419	915	29	223	252	1,419	915	29	223	252
Texas Southern U.	908	517	0	0	391	908	517	0	0	391
Texas State U.	1,359	873	321	165	0	1,215	751	299	165	0
Texas Tech U.	10,757 i	4,945 i	2,584 i	1,802 i	1,426 i	8,435	4,152	2,199	1,406	678
Texas Tech U., Health Sciences Center	4,752	1,152	231	22	3,347	1,267	981	231	22	33
Texas Tech U., Health Sciences Center, El Paso	3,344	750	0	0	2,594	452	452	0	0	0
Texas Woman's U.	226	226	0	0	0	226	226	0	0	0
U. Houston	18,423	5,719	3,937	1,596	7,171	16,730	4,962	3,863	1,473	6,432
U. Houston-Clear Lake	712	189	65	458	0	557	189	65	303	0
U. Houston-Downtown	242	96	0	0	146	239	96	0	0	143
U. North Texas, Denton	4,651	2,378	455	930	888	3,721	1,780	455	647	839
U. North Texas, Health Science Center	3,674	2,137	564	187	786	2,808	1,856	343	173	436
U. Texas Health Science Center, Houston	30,296	20,220	1,300	4,699	4,077	23,325	16,809	1,300	4,699	517
U. Texas Health Science Center, San Antonio	15,350 i	9,502 i	993 i	3,867 i	988 i	12,880	8,834	279	3,365	402
U. Texas Health Science Center, Tyler	0	0	0	0	0	0	0	0	0	0

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
U. Texas M. D. Anderson Cancer Center	40,027	18,961	11,531	8,572	963	25,890	15,262	4,364	6,061	203
U. Texas Medical Branch	23,215	10,585	3,681	3,676	5,273	17,784	10,427	3,681	3,676	0
U. Texas of the Permian Basin	125 i	24 i	0 i	0 i	101 i	0 i	0 i	0 i	0 i	0 i
U. Texas Rio Grande Valley	3,372	1,402	18	665	1,287	2,218	1,354	18	665	181
U. Texas Southwestern Medical Center	27,745	13,700	930	6,097	7,018	23,511	12,240	746	5,234	5,291
U. Texas, Arlington	11,863	7,851	1,680	950	1,382	11,719	7,782	1,673	950	1,314
U. Texas, Austin	206,114	37,604	84,651	54,643	29,216	79,608	32,154	6,862	13,762	26,830
U. Texas, Dallas	6,448	1,263	0	2,168	3,017	1,263	1,263	0	0	0
U. Texas, El Paso	6,858	3,560	1,455	1,425	418	6,534	3,553	1,388	1,316	277
U. Texas, San Antonio	6,396	3,520	274	1,394	1,208	5,894	3,312	258	1,335	989
U. Texas, Tyler	373	373	0	0	0	373	373	0	0	0
West Texas A&M U.	0	0	0	0	0	0	0	0	0	0
Private										
Baylor C. of Medicine	55,099	38,482	562	12,973	3,082	43,371	35,559	562	7,098	152
Baylor U.	2,032	1,536	175	262	59	1,599	1,186	138	231	44
Rice U.	20,621	12,851	2,758	1,444	3,568	19,385	12,011	2,608	1,258	3,508
Southern Methodist U.	4,611	2,735	441	109	1,326	4,284	2,512	441	5	1,326
St. Edward's U.	295	265	0	30	0	200	200	0	0	0
Texas Christian U.	736	364	135	9	228	727	364	135	0	228
Trinity U.	158	158	0	0	0	93	93	0	0	0
U. of the Incarnate Word	14	14	0	0	0	14	14	0	0	0
Utah										
Public										
U. Utah	45,722	27,196	4,887	6,030	7,609	45,423	27,108	4,676	6,030	7,609
Utah State U.	34,049	5,599	2,266	112	26,072	33,933	5,599	2,266	112	25,956
Weber State U.	85 i	78 i	0 i	1 i	6 i	72	72	0	0	0
Private										
Brigham Young U., Provo	7,957 i	3,836 i	1,492 i	1,656 i	973 i	7,572	3,692	1,419	1,530	931
Vermont										
Public										
U. Vermont	20,378	13,372	1,004	4,101	1,901	19,094	12,963	804	3,940	1,387

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Private										
Middlebury C.	544	544	0	0	0	544	544	0	0	0
Saint Michael's C.	627	627	0	0	0	627	627	0	0	0
Virginia										
Public										
Christopher Newport U.	327	0	193	0	134	193	0	193	0	0
Eastern Virginia Medical School	2,378	1,839	515	24	0	2,307	1,768	515	24	0
George Mason U.	29,253	6,788	17,746	3,363	1,356	26,666	6,694	17,315	1,808	849
James Madison U.	212 i	100 i	17 i	50 i	45 i	119	71	0	33	15
Norfolk State U.	39	39	0	0	0	39	39	0	0	0
Old Dominion U.	8,230	2,538	1,561	2,330	1,801	7,768	2,222	1,495	2,256	1,795
U. of Mary Washington	186	157	0	0	29	157	157	0	0	0
U. Virginia, Charlottesville	69,347	35,096	18,505	8,033	7,713	59,412	31,397	16,117	6,221	5,677
Virginia Commonwealth U.	18,279 i	10,958 i	3,641 i	2,600 i	1,080 i	14,474	10,270	2,558	1,302	344
Virginia Polytechnic Institute and State U.	47,662 i	19,556 i	22,806 i	1,814 i	3,486 i	42,439	18,608	20,345	0	3,486
Virginia State U.	385	385	0	0	0	385	385	0	0	0
William & Mary	9,877	1,913	472	2,108	5,384	7,067	1,575	312	1,630	3,550
Private										
Edward Via C. of Osteopathic Medicine	123	58	0	0	65	81	16	0	0	65
Hampton U.	347	347	0	0	0	347	347	0	0	0
Liberty U.	477	477	0	0	0	444	444	0	0	0
U. Richmond	42	42	0	0	0	42	42	0	0	0
Washington										
Public										
Central Washington U.	381	381	0	0	0	381	381	0	0	0
Eastern Washington U.	352	86	8	60	198	302	39	5	60	198
Northwest Indian C.	57 i	0 i	0 i	0 i	57 i	0 i	0 i	0 i	0 i	0 i
U. Washington, Bothell	791	364	98	329	0	538	336	98	104	0
U. Washington, Seattle	187,328	75,526	15,261	76,760	19,781	163,756	66,605	14,643	67,720	14,788
U. Washington, Tacoma	1,906	168	101	25	1,612	1,821	108	101	0	1,612
Washington State U.	22,811	9,645	4,595	2,491	6,080	20,507	8,673	4,511	1,566	5,757

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Western Washington U.	883	410	0	473	0	149	149	0	0	0
Private										
Seattle U.	163	163	0	0	0	154	154	0	0	0
U. Puget Sound	32	4	0	0	28	4	4	0	0	0
Whitman C.	38	38	0	0	0	38	38	0	0	0
West Virginia										
Public										
Marshall U.	3,609 i	1,554 i	74 i	766 i	1,215 i	3,296	1,472	0	666	1,158
West Virginia School of Osteopathic Medicine	427	0	0	414	13	419	0	0	414	5
West Virginia State U.	699	251	17	0	431	251	251	0	0	0
West Virginia U.	20,694 i	6,963 i	4,780 i	2,769 i	6,182 i	18,667	6,416	4,193	2,356	5,702
Wisconsin										
Public										
U. Wisconsin-Eau Claire	70	70	0	0	0	21	21	0	0	0
U. Wisconsin-Green Bay	46 i	2 i	15 i	11 i	18 i	41 i	2 i	14 i	9 i	16 i
U. Wisconsin-La Crosse	405	39	0	7	359	376	19	0	0	357
U. Wisconsin-Madison	97,711	51,585	7,705	16,680	21,741	87,094	47,376	5,340	12,866	21,512
U. Wisconsin-Milwaukee	4,120	2,080	979	364	697	3,894	1,960	916	323	695
U. Wisconsin-Oshkosh	109 i	0 i	34 i	39 i	36 i	94 i	0 i	28 i	33 i	33 i
U. Wisconsin-Platteville	49 i	26 i	3 i	7 i	13 i	41 i	22 i	2 i	6 i	11 i
U. Wisconsin-River Falls	130	83	0	0	47	130	83	0	0	47
U. Wisconsin-Stevens Point	1,044	889	43	70	42	918	839	43	36	0
U. Wisconsin-Superior	152	47	0	0	105	143	38	0	0	105
Private										
Marquette U.	1,490	1,234	192	62	2	1,490	1,234	192	62	2
Medical C. Wisconsin	18,702	9,221	1,421	7,152	908	15,677	7,123	1,338	6,323	893
Milwaukee School of Engineering	0	0	0	0	0	0	0	0	0	0
Wyoming										
Public										
U. Wyoming	12,492	5,485	506	633	5,868	12,353	5,485	506	633	5,729

TABLE 75

Total and federally financed higher education R&D expenditures received as a subrecipient, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities	All R&D expenditures received	From higher education pass-through entities	From businesses	From nonprofit organizations	From other pass-through entities
Guam										
Public										
U. Guam	1,100	654	0	77	369	1,100	654	0	77	369
Puerto Rico										
Public										
U. Puerto Rico, Cayey	137	137	0	0	0	137	137	0	0	0
U. Puerto Rico, Humacao	175	175	0	0	0	175	175	0	0	0
U. Puerto Rico, Mayaguez	1,078	8	712	315	43	8	8	0	0	0
U. Puerto Rico, Medical Sciences Campus	4,796	2,753	618	1,193	232	4,065	2,753	119	1,193	0
U. Puerto Rico, Rio Piedras	1,567	1,218	0	0	349	1,567	1,218	0	0	349
Private										
Polytechnic U. Puerto Rico	0	0	0	0	0	0	0	0	0	0
Ponce Health Sciences U.	1,061	418	0	60	583	1,061	418	0	60	583
U. Ana G. Mendez, Carolina	195	195	0	0	0	195	195	0	0	0
U. Ana G. Mendez, Gurabo	489	489	0	0	0	489	489	0	0	0
U. Central del Caribe	1,092	747	0	0	345	825	747	0	0	78
Virgin Islands										
Public										
U. of the Virgin Islands	5,417	1,310	0	143	3,964	3,600	1,310	0	25	2,265

i = imputed.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures received as a subrecipient in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form only requested R&D expenditures received from higher education institutions. For a listing of R&D expenditures received from higher education institutions at institutions completing the shorter version of the survey, see table 84.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
United States	7,053,612	3,866,145	1,338,352	1,241,079	608,036	5,962,370	3,404,432	1,071,398	1,044,447	442,093
Alabama										
Public										
Alabama A&M U.	191	34	99	0	58	191	34	99	0	58
Alabama State U.	257	257	0	0	0	257	257	0	0	0
Auburn U., Auburn	6,647	3,752 i	1,338 i	424 i	1,133 i	6,416	3,544 i	1,315 i	424 i	1,133 i
Jacksonville State U.	90	90	0	0	0	90	90	0	0	0
Troy U.	29	18	0	9	2	29	18	0	9	2
U. Alabama, Birmingham	76,431	39,355	25,936	9,911	1,229	69,339	39,292	21,968	6,901	1,178
U. Alabama, Huntsville	5,481	3,905	678	514	384	5,063	3,871	678	514	0
U. Alabama, Tuscaloosa	4,116	1,996	1,455	224	441	3,849	1,799	1,452	224	374
U. South Alabama	3,463	1,951	35	125	1,352	2,523	1,736	35	119	633
Private										
Tuskegee U.	1,089	999	87	3	0	1,089	999	87	3	0
Alaska										
Public										
U. Alaska, Anchorage	2,862	90	NA	NA	2,772	2,862	90	0	0	2,772
U. Alaska, Fairbanks	6,988	4,272 i	1,966 i	NA	750 i	6,988	4,272 i	1,966 i	0 i	750 i
U. Alaska, Southeast	139	0	0	0	139	139	0	0	0	139
Private										
Alaska Pacific U.	0	0	0	0	0	0	0	0	0	0
Arizona										
Public										
Arizona State U.	69,444	27,968	22,675	15,967	2,834	63,993	24,407	22,519	14,996	2,071
Dine C.	0	0	0	0	0	0	0	0	0	0
Northern Arizona U.	5,931	2,349	1,387	1,383	812	5,550	2,029	1,387	1,323	811
U. Arizona	48,138	28,935	7,145	10,274	1,784	46,863	27,970	7,121	10,093	1,679
Arkansas										
Public										
Arkansas State U., Jonesboro	367	364	0	0	3	359	356	0	0	3
U. Arkansas for Medical Sciences	10,354	9,326	686	296	46	9,782	8,825	652	296	9
U. Arkansas, Fayetteville	8,153	6,662	704	489	298	6,063	5,265	443	195	160

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Arkansas, Little Rock	1,906	1,906	0	0	0	1,881	1,881	0	0	0
U. Arkansas, Pine Bluff	183	102	0	0	81	183	102	0	0	81
U. Central Arkansas	97	97	0	0	0	97	97	0	0	0
California										
Public										
California Polytechnic State U., San Luis Obispo	1,553	882	73	486	112	972	351	23	486	112
California State Polytechnic U., Pomona	106	106	0	0	0	101	101	0	0	0
California State U., Bakersfield	0	0	0	0	0	0	0	0	0	0
California State U., Channel Islands	67	67	0	0	0	67	67	0	0	0
California State U., Chico	446	381	38	27	0	446	381	38	27	0
California State U., Dominguez Hills	0	0	0	0	0	0	0	0	0	0
California State U., East Bay	629	629	0	0	0	558	558	0	0	0
California State U., Fresno	357	279	78	0	0	125	76	49	0	0
California State U., Fullerton	230	205	25	0	0	227	202	25	0	0
California State U., Long Beach	692	166	442	84	0	196	112	0	84	0
California State U., Los Angeles	488	316	0	154	18	462	316	0	128	18
California State U., Maritime Academy	636	581	0	0	55	0	0	0	0	0
California State U., Monterey Bay	795	774	0	21	0	777	756	0	21	0
California State U., Northridge	759	727	0	32	0	754	727	0	27	0
California State U., Sacramento	755	89	666	0	0	38	38	0	0	0
California State U., San Bernardino	315	315	0	0	0	153	153	0	0	0
California State U., San Marcos	800	415	0	385	0	758	373	0	385	0
California State U., Stanislaus	0	0	0	0	0	0	0	0	0	0
Humboldt State U.	775	98	512	80	85	63	0	58	0	5
Naval Postgraduate School	1,268	1,243	25	0	0	1,268	1,243	25	0	0
San Diego State U.	4,852	3,245	285	863	459	4,172	2,857	285	659	371
San Francisco State U.	2,102 i	1,804 i	239 i	59 i	0 i	1,786 i	1,738 i	0 i	48 i	0 i
San Jose State U.	4,246	4,040	206	0	0	1,399	1,302	97	0	0
Sonoma State U.	235	106	0	103	26	209	106	0	103	0
U. California, Berkeley	64,768	36,540 i	12,199 i	8,530 i	7,499 i	47,541	27,058 i	9,009 i	6,360 i	5,114 i
U. California, Davis	64,631	36,247 i	12,336 i	8,649 i	7,399 i	53,430	30,407 i	10,127 i	7,148 i	5,748 i

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total										Federally financed									
	All R&D expenditures passed through		To higher education subrecipients		To businesses		To nonprofit organizations		To other subrecipients		All R&D expenditures passed through		To higher education subrecipients		To businesses		To nonprofit organizations		To other subrecipients	
U. California, Irvine	26,727		22,645	i	1,409	i	2,489	i	184	i	23,068		19,609	i	1,152	i	2,307	i	0	i
U. California, Los Angeles	144,105		80,041	i	27,861	i	19,550	i	16,653	i	122,269		69,590	i	23,172	i	16,359	i	13,148	i
U. California, Merced	2,320		450	i	160	i	112	i	1,598	i	815		450	i	160	i	112	i	93	i
U. California, Office of the President	12		0	i	0	i	0	i	12	i	0		0		0		0		0	
U. California, Riverside	10,714		10,070	i	264	i	380	i	0	i	8,752		8,181	i	191	i	380	i	0	i
U. California, San Diego	99,348		55,387	i	18,970	i	13,251	i	11,740	i	71,540		40,716	i	13,558	i	9,570	i	7,696	i
U. California, San Francisco	133,529		74,218	i	25,683	i	17,978	i	15,650	i	103,999		59,190	i	19,709	i	13,913	i	11,187	i
U. California, Santa Barbara	27,888		21,014	i	2,479	i	902	i	3,493	i	20,287		16,455	i	2,479	i	902	i	451	i
U. California, Santa Cruz	10,136		7,270	i	1,699	i	1,167	i	0	i	9,050		6,326	i	1,557	i	1,167	i	0	i
Private																				
Azusa Pacific U.	0		0		0		0		0		0		0		0		0		0	
Biola U.	94	i	49	i	14	i	24	i	7	i	81	i	45	i	10	i	21	i	5	i
California Institute of Technology	42,697		35,739		1,265		3,189		2,504		39,531		33,237		1,099		2,907		2,288	
California Lutheran U.	0		0		0		0		0		0		0		0		0		0	
Chapman U.	1,794		1,325		0		201		268		1,357		1,185		0		146		26	
Charles R. Drew U. of Medicine and Science	1,058		0		0		1,058		0		1,058		0		0		1,058		0	
Claremont Graduate U.	412		297		0		0		115		115		0		0		0		115	
Claremont McKenna C.	58		58		0		0		0		58		58		0		0		0	
Harvey Mudd C.	98		98		0		0		0		98		98		0		0		0	
High Tech High Graduate School of Ed.	0		0		0		0		0		0		0		0		0		0	
Keck Graduate Institute	403	i	128	i	264	i	0	i	11	i	403	i	128	i	264	i	0	i	11	i
La Sierra U.	0		0		0		0		0		0		0		0		0		0	
Loma Linda U.	898	i	606	i	0	i	77	i	215	i	633	i	602	i	0	i	31	i	0	i
Loyola Marymount U.	269		218		0		51		0		201		201		0		0		0	
Marshall B. Ketchum U.	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i	0	i
Mills C.	156		0		0		0		156		156		0		0		0		156	
Occidental C.	202		146		0		0		56		146		146		0		0		0	
Pepperdine U.	174		61		0		113		0		149		36		0		113		0	
Pomona C.	8		8		0		0		0		8		8		0		0		0	
Santa Clara U.	104		5		53		0		46		20		5		0		0		15	
Scripps Research Institute	51,652		15,079		20,838		15,438		297		51,144		14,837		20,838		15,249		220	

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Stanford U.	78,143	51,942	5,543	11,039	9,619	60,954	42,227	3,528	9,456	5,743
Touro U.	60	60	0	0	0	60	60	0	0	0
U. of the Pacific	0	0	0	0	0	0	0	0	0	0
U. San Diego	393	208	0	185	0	316	131	0	185	0
U. San Francisco	150	150	0	0	0	24	24	0	0	0
U. Southern California	116,581	75,009	19,641	19,027	2,904	96,356	65,521	12,251	16,150	2,434
Western U. of Health Sciences	637	358	187	20	72	608	349	187	0	72
Colorado										
Public										
Colorado School of Mines	6,991	4,544	2,175	272	0	6,754	4,492	1,990	272	0
Colorado State U., Fort Collins	25,750	19,836	2,837	1,250	1,827	23,609	18,214	2,837	1,250	1,308
Colorado State U., Pueblo	0	0	0	0	0	0	0	0	0	0
Fort Lewis C.	258	258	0	0	0	258	258	0	0	0
U. Colorado Boulder	55,714	30,741	16,481	2,701	5,791	46,379	27,265	11,719	2,212	5,183
U. Colorado Colorado Springs	334	271	50	0	13	289	248	28	0	13
U. Colorado Denver and Anschutz Medical Campus	47,768	25,836	3,034	14,160	4,738	39,339	22,916	2,086	10,650	3,687
U. Northern Colorado	122	51	71	0	0	122	51	71	0	0
U.S. Air Force Academy	0	0	0	0	0	0	0	0	0	0
Private										
Colorado C.	0	0	0	0	0	0	0	0	0	0
U. Denver	6,147	2,015	1,061	3,044	27	5,572	1,838	948	2,759	27
Connecticut										
Public										
Central Connecticut State U.	25	2	0	0	23	25	2	0	0	23
Eastern Connecticut State U.	0	0	0	0	0	0	0	0	0	0
Southern Connecticut State U.	73	66	7	0	0	66	66	0	0	0
U. Connecticut	22,979	15,472	4,456	2,699	352	19,682	13,622	4,183	1,711	166
Private										
Connecticut C.	2	2	0	0	0	2	2	0	0	0
Fairfield U.	0	0	0	0	0	0	0	0	0	0
Trinity C., Hartford	270	270	0	0	0	270	270	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Hartford	198	198	0	0	0	198	198	0	0	0
U. New Haven	95	39	3	53	0	81	25	3	53	0
Wesleyan U.	376	376	0	0	0	308	308	0	0	0
Yale U.	61,364	33,153	1,337	20,348	6,526	55,434	31,066	1,337	18,450	4,581
Delaware										
Public										
Delaware State U.	1,888 i	1,888 i	0 i	0 i	0 i	1,888 i	1,888 i	0 i	0 i	0 i
U. Delaware	32,744	22,412	8,846	865	621	29,843	20,975	7,642	865	361
District of Columbia										
Public										
National Defense U.	0	0	0	0	0	0	0	0	0	0
U. of the District of Columbia	399	399	0	0	0	399	399	0	0	0
Private										
American U.	3,743	1,329	189	1,650	575	3,383	1,218	189	1,412	564
Catholic U. of America	1,377	880	54	377	66	1,294	856	54	319	65
Gallaudet U.	463	356	0	107	0	463	356	0	107	0
George Washington U.	58,864	38,711	4,264	14,786	1,103	53,654	37,130	2,378	13,259	887
Georgetown U.	19,342	9,238	2,749	5,825	1,530	13,791	7,358	1,571	4,529	333
Howard U.	2,033	1,338	258	437	0	1,234	1,017	90	127	0
Florida										
Public										
Florida A&M U.	3,530	3,334	122	2	72	3,397	3,235	90	0	72
Florida Atlantic U.	3,637	2,280	149	52	1,156	3,044	1,952	74	0	1,018
Florida Gulf Coast U.	320	245	0	0	75	245	245	0	0	0
Florida International U.	14,122	7,038	4,095	1,912	1,077	11,547	6,157	3,573	1,062	755
Florida Polytechnic U.	60	60	0	0	0	29	29	0	0	0
Florida State U.	37,246	18,958	3,106	2,449	12,733	35,739	17,922	2,959	2,449	12,409
U. Central Florida	21,551	7,121	8,449	5,327	654	15,449	5,648	7,959	1,593	249
U. Florida	62,454	46,126	1,872	11,076	3,380	52,603	39,513	819	9,521	2,750
U. North Florida	316	82	20	214	0	1	1	0	0	0
U. South Florida, Saint Petersburg	167	133	0	0	34	152	118	0	0	34
U. South Florida, Sarasota-Manatee	0	0	0	0	0	0	0	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. South Florida, Tampa	38,051	22,656	4,414	3,756	7,225	31,691	19,829	3,952	3,250	4,660
U. West Florida	6,956	6,729	227	0	0	5,800	5,800	0	0	0
Private										
Embry-Riddle Aeronautical U.	5,227	614	4,554	59	NA	5,227	614	4,554	59	0
Florida Institute of Technology	2,435	1,758	580	91	6	1,992	1,544	442	0	6
Nova Southeastern U.	1,866	1,018	357	491	0	1,291	567	238	486	0
U. Miami	47,419	34,429	2,729	10,134	127	40,637	29,145	1,866	9,499	127
Georgia										
Public										
Albany State U.	98	98	0	0	0	98	98	0	0	0
Augusta U.	6,396	5,393	0	1,003	0	5,993	5,242	0	751	0
Columbus State U.	0	0	0	0	0	0	0	0	0	0
Fort Valley State U.	6	0	0	6	0	6	0	0	6	0
Georgia Institute of Technology	82,481	5,294	77,104	83	0	82,378	5,289	77,006	83	0
Georgia Southern U.	34	13	0	21	0	13	13	0	0	0
Georgia State U.	17,234	10,995	1,407	2,779	2,053	14,154	10,363	732	1,381	1,678
Kennesaw State U.	169	103	0	6	60	103	103	0	0	0
Savannah State U.	92	92	0	0	0	92	92	0	0	0
U. Georgia	31,016	24,216	328	2,937	3,535	27,299	21,779	288	2,519	2,713
U. North Georgia	0	0	0	0	0	0	0	0	0	0
Private										
Clark Atlanta U.	169	169	0	0	0	169	169	0	0	0
Emory U.	115,115	58,784	25,049	24,137	7,145	72,934	46,422	7,142	15,009	4,361
Mercer U.	5,900	18	5,882	0	0	5,892	18	5,874	0	0
Morehouse C.	841	841	0	0	0	841	841	0	0	0
Morehouse School of Medicine	1,678	1,552	0	126	0	1,532	1,408	0	124	0
Spelman C.	135	135	0	0	0	135	135	0	0	0
Hawaii										
Public										
U. Hawaii, Hilo	142	0	0	101	41	142	0	0	101	41
U. Hawaii, Manoa	13,416	5,370	5,032	1,968	1,046	12,648	5,271	5,031	1,870	476
U. Hawaii, system office	517	0	0	517	0	517	0	0	517	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Private										
Hawaii Pacific U.	431	431	0	0	0	431	431	0	0	0
Idaho										
Public										
Boise State U.	2,220	1,989	0	231	0	2,186	1,955	0	231	0
Idaho State U.	402	236	21	7	138	381	236	0	7	138
U. Idaho	8,722	7,560	254	212	696	8,111	6,960	243	212	696
Illinois										
Public										
Illinois State U.	3,980	864	298	713	2,105	3,927	853	282	713	2,079
Northeastern Illinois U.	17	17	0	0	0	17	17	0	0	0
Northern Illinois U.	306	153	0	17	136	302	153	0	13	136
Southern Illinois U., Carbondale	1,083	784	0	0	299	480	181	0	0	299
Southern Illinois U., Edwardsville	147	80	67	0	0	120	53	67	0	0
U. Illinois, Chicago	23,843	12,286	4,964 i	3,466 i	3,127 i	14,173	10,538	1,599 i	1,129 i	907 i
U. Illinois, Springfield	100	0	100	0	0	0	0	0	0	0
U. Illinois, Urbana-Champaign	89,279	56,797	20,697	7,386	4,399	79,108	52,710	19,021	6,722	655
Western Illinois U.	579	579	0	0	0	579	579	0	0	0
Private										
Bradley U.	0	0	0	0	0	0	0	0	0	0
DePaul U.	1,288	486	0	669	133	1,268	485	0	650	133
Erikson Institute	0	0	0	0	0	0	0	0	0	0
Illinois Institute of Technology	2,648	1,183	211	1,188	66	2,587	1,149	211	1,161	66
Loyola U., Chicago	2,973	1,580	119	273	1,001	2,866	1,523	119	256	968
Midwestern U.	81	81	0	0	0	81	81	0	0	0
Northwestern U.	82,514	800	1,273	80,441	0	76,951	245	0	76,706	0
Rosalind Franklin U. of Medicine and Science	501	295	0	0	206	501	295	0	0	206
Rush U.	10,826	6,906	5	3,869	46	9,904	6,478	5	3,375	46
Toyota Technological Institute, Chicago	53	53	0	0	0	53	53	0	0	0
U. Chicago	46,118	27,676	818	16,166	1,458	43,729	26,750	594	15,073	1,312
Wheaton C., Wheaton	89	89	0	0	0	89	89	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Indiana										
Public										
Ball State U.	360	197	130	0	33	0	0	0	0	0
Indiana State U.	117	86	31	0	0	117	86	31	0	0
Indiana U., Bloomington	64,553	38,229	539	21,945	3,840	55,434	32,421	492	19,232	3,289
Indiana U.-Purdue U., Indianapolis	2,881	2,050	24	806	1	2,407	1,801	24	582	0
Purdue U., Fort Wayne	80	80	0	0	0	79	79	0	0	0
Purdue U., Northwest	278	249	29	0	0	276	247	29	0	0
Purdue U., West Lafayette	47,622	33,338	10,156	746	3,382	38,028	25,550	8,739	357	3,382
Private										
U. Notre Dame	27,732	19,195	935	4,804	2,798	21,011	15,624	813	3,286	1,288
Iowa										
Public										
Iowa State U.	17,764	12,491	4,515	446	312	14,343	9,675	4,062	430	176
U. Iowa	25,013	23,763	0	0	1,250	23,628	22,447	0	0	1,181
U. Northern Iowa	364	364	0	0	0	364	364	0	0	0
Private										
Des Moines U.	26	16	0	10	0	26	16	0	10	0
Grinnell C.	6	6	0	0	0	6	6	0	0	0
Palmer C. of Chiropractic, Davenport	750	750	0	0	0	750	750	0	0	0
Kansas										
Public										
Fort Hays State U.	122	122	0	0	0	122	122	0	0	0
Kansas State U.	13,131	10,347	802	728	1,254	12,311	9,884	524	728	1,175
Pittsburg State U.	0	0	0	0	0	0	0	0	0	0
U. Kansas	29,732	18,898	4,538	6,156	140	26,182	16,938	3,225	5,879	140
Wichita State U.	4,057	3,332	412	208	105	4,057	3,332	412	208	105
Kentucky										
Public										
Eastern Kentucky U.	25	23	2	0	0	25	23	2	0	0
Kentucky State U.	358	358	0	0	0	358	358	0	0	0
Morehead State U.	74	0	74	0	0	74	0	74	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Murray State U.	662	662	0	0	0	662	662	0	0	0
Northern Kentucky U.	3	0	0	1	2	3	0	0	1	2
U. Kentucky	20,478	16,493	1,842	1,763	380	16,670	13,261	1,552	1,550	307
U. Louisville	9,827	6,067 i	1,498 i	1,397 i	865 i	9,096	5,703 i	1,343 i	1,265 i	785 i
Western Kentucky U.	10	10	0	0	0	10	10	0	0	0
Louisiana										
Public										
Grambling State U.	18	18	0	0	0	18	18	0	0	0
Louisiana State U., Baton Rouge	13,169	12,253	223	348	345	10,569	10,277	85	140	67
Louisiana State U., Health Sciences Center, New Orleans	6,920	2,962	73	3,884	1	6,499	2,578	73	3,848	0
Louisiana State U., Health Sciences Center, Shreveport	368	356	5	0	7	356	349	0	0	7
Louisiana Tech U.	849	835	14	0	0	799	785	14	0	0
Northwestern State U. Louisiana	0	0	0	0	0	0	0	0	0	0
Southeastern Louisiana U.	23	23	0	0	0	23	23	0	0	0
Southern U. and A&M C., Agricultural Research and Extension Center	0	0	0	0	0	0	0	0	0	0
Southern U. and A&M C., Baton Rouge	345	129	216	0	0	345	129	216	0	0
U. Louisiana, Lafayette	2,259	1,485	630	0	144	2,095	1,363	588	0	144
U. Louisiana, Monroe	44	44	0	0	0	44	44	0	0	0
U. New Orleans	1,442	284	278	508	372	1,049	284	41	361	363
Private										
Dillard U.	65	65	0	0	0	65	65	0	0	0
Tulane U.	19,099	11,097	2,833	457	4,712	12,115	8,255	1,363	249	2,248
Xavier U. Louisiana	322	322	0	0	0	322	322	0	0	0
Maine										
Public										
U. Maine	5,943	4,904	258	675	106	4,419	3,487	236	590	106
U. Southern Maine	0	0	0	0	0	0	0	0	0	0
Private										
Bates C.	385	385	0	0	0	385	385	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Bowdoin C.	295	34	0	261	0	276	33	0	243	0
Colby C.	0	0	0	0	0	0	0	0	0	0
U. New England	167	55	34	19	59	155	55	34	7	59
Maryland										
Public										
Bowie State U.	0	0	0	0	0	0	0	0	0	0
Morgan State U.	1,446	1,397	39	10	0	1,444	1,397	37	10	0
Salisbury U.	135	82	0	53	0	53	0	0	53	0
Towson U.	378	281	89	0	8	378	281	89	0	8
U. Baltimore	3,274	1,101	33	1,174	966	3,241	1,101	0	1,174	966
U. Maryland[a]	127,192	86,294	11,810	15,074	14,014	99,438	66,062	9,743	14,068	9,565
U. Maryland Center for Environmental Science	2,761	2,039	97	71	554	2,369	1,818	94	71	386
U. Maryland, Baltimore County	5,447	5,102	70	96	179	5,275	4,977	70	94	134
U. Maryland, Eastern Shore	120	120	0	0	0	120	120	0	0	0
U.S. Naval Academy	0	0	0	0	0	0	0	0	0	0
Uniformed Services U. of the Health Sciences	0	0	0	0	0	0	0	0	0	0
Private										
Johns Hopkins U.[b]	174,995	98,170 i	17,641 i	36,406 i	22,778 i	138,616	82,396 i	12,797 i	26,537 i	16,886 i
Massachusetts										
Public										
Framingham State U.	0	0	0	0	0	0	0	0	0	0
U. Massachusetts, Amherst	13,970	10,075	2,031	495	1,369	11,095	8,541	1,312	419	823
U. Massachusetts, Boston	6,106	3,065	981	1,822	238	4,074	1,789	825	1,222	238
U. Massachusetts, central office	365	188	0	177	0	149	149	0	0	0
U. Massachusetts, Dartmouth	318	0	60	0	258	164	0	60	0	104
U. Massachusetts, Lowell	8,711	3,392	4,289	789	241	4,608	3,039	758	570	241
U. Massachusetts, Medical School	28,086	17,491	2,860	7,735	0	27,281	17,192	2,773	7,316	0
Private										
Amherst C.	39	33	0	6	0	39	33	0	6	0
Babson C.	NA	NA	NA	NA	NA	0	0	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Boston C.	8,805	3,816	13	2,215	2,761	5,845	3,138	13	2,001	693
Boston U.	101,714	25,738	51,294	24,462	220	63,155	21,284	20,445	21,269	157
Brandeis U.	3,679	3,039	70	540	30	3,110	2,470	70	540	30
Clark U.	731	694	0	0	37	727	690	0	0	37
Emerson C.	0	0	0	0	0	0	0	0	0	0
Franklin W. Olin C. of Engineering	0	0	0	0	0	0	0	0	0	0
Harvard U.	143,887	50,438	2,772	31,006	59,671	114,965	42,196	2,378	25,358	45,033
Massachusetts Institute of Technology	30,828	8,698	17,666	4,093	371	28,404	8,292	17,079	2,662	371
Merrimack C.	0	0	0	0	0	0	0	0	0	0
MGH Institute of Health Professions	444	444	0	0	0	444	444	0	0	0
Mount Holyoke C.	25	25	0	0	0	25	25	0	0	0
New England C. of Optometry	9	9	0	0	0	9	9	0	0	0
Northeastern U.	37,489	21,913	4,358	10,814	404	36,822	21,525	4,278	10,751	268
Smith C.	126	99	0	27	0	126	99	0	27	0
Stonehill C.	168	0	0	168	0	168	0	0	168	0
Suffolk U.	593	346	0	247	0	513	266	0	247	0
Tufts U.	28,008	243	249	3,408	24,108	23,849	41	0	0	23,808
Wellesley C.	9	9	0	0	0	9	9	0	0	0
Williams C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Woods Hole Oceanographic Institution	26,906	24,681	697	757	771	26,242	24,265	563	693	721
Worcester Polytechnic Institute	3,701	1,862	604	1,113	122	3,007	1,852	577	456	122
Michigan										
Public										
Central Michigan U.	2,584	2,397	43	0	144	2,541	2,354	43	0	144
Eastern Michigan U.	1,199	1,173	26	0	0	1,135	1,109	26	0	0
Grand Valley State U.	93	63	30	NA	NA	93	63	30	0	0
Michigan State U.	45,105	26,594	3,604	10,188	4,719	41,097	24,816	3,046	9,036	4,199
Michigan Technological U.	4,271	3,669	586	0	16	4,154	3,552	586	0	16
Northern Michigan U.	16	16	0	0	0	16	16	0	0	0
Oakland U.	293	220	73	0	0	98	25	73	0	0
Saginaw Valley State U.	417	0	106	0	311	417	0	106	0	311
U. Michigan, Ann Arbor	119,776	80,451	8,094	21,791	9,440	107,124	73,568	7,383	20,744	5,429

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Michigan, Dearborn	26	18	0	0	8	8	0	0	0	8
U. Michigan, Flint	5	0	0	5	0	5	0	0	5	0
Wayne State U.	9,110	6,933	713	1,464	0	8,299	6,428	635	1,236	0
Western Michigan U. and Homer Stryker M.D. School of Medicine	704	414	98	121	71	630	379	98	82	71
Private										
Albion C.	0	0	0	0	0	0	0	0	0	0
Andrews U.	56	56	0	0	0	56	56	0	0	0
Calvin U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Hope C.	115	44	60	11	0	11	0	0	11	0
Kettering U.	19	9	0	10	0	19	9	0	10	0
Lawrence Technological U.	0	0	0	0	0	0	0	0	0	0
U. Detroit Mercy	507	507	0	0	0	507	507	0	0	0
Van Andel Research Institute	2,331	863	0	1,468	0	1,336	863	0	473	0
Minnesota										
Public										
Minnesota State U., Mankato	355 i	196 i	68 i	47 i	44 i	314 i	177 i	58 i	42 i	37 i
St. Cloud State U.	233	57	0	0	176	113	57	0	0	56
U. Minnesota, Duluth	266	144 i	49 i	44 i	29 i	87	55 i	12 i	12 i	8 i
U. Minnesota, Morris	10	0 i	0 i	0 i	10 i	0	0	0	0	0
U. Minnesota, Twin Cities	89,639	50,295 i	17,118 i	12,012 i	10,214 i	75,525	42,986 i	14,314 i	10,102 i	8,123 i
Private										
C. of Saint Benedict	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Carleton C.	52	52	0	0	0	52	52	0	0	0
Macalester C.	178	178	0	0	0	178	178	0	0	0
Saint John's U., Collegeville	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
St. Olaf C.	0	0	0	0	0	0	0	0	0	0
U. of St. Thomas (MN)	15	15	0	0	0	11	11	0	0	0
Mississippi										
Public										
Alcorn State U.	243	243	0	0	0	243	243	0	0	0
Jackson State U.	1,956	1,945	0	0	11	1,956	1,945	0	0	11

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Mississippi State U.	24,556	12,112	7,262	2,851	2,331	22,541	10,953	7,111	2,180	2,297
U. Mississippi	6,580	5,281	256	890	153	6,416	5,178	256	829	153
U. Southern Mississippi	13,505	12,721	401	245	138	12,683	11,899	401	245	138
Private										
Tougaloo C.	0	0	0	0	0	0	0	0	0	0
Missouri										
Public										
Lincoln U., Jefferson City	147	147	0	0	0	147	147	0	0	0
Missouri State U.	7,363	266	7,097	0	0	7,334	266	7,068	0	0
Missouri U. of Science and Technology	1,882	1,331	511	40	0	1,882	1,331	511	40	0
U. Missouri, Columbia	21,666	11,829	1,302	4,257	4,278	18,367	9,727	1,163	3,303	4,174
U. Missouri, Kansas City	4,469	2,389	946	1,044	90	4,409	2,384	946	995	84
U. Missouri, Saint Louis	1,387	675	2	307	403	765	412	2	162	189
Private										
Saint Louis U.	4,604	2,715	453	860	576	4,228	2,434	453	802	539
U. of Health Sciences and Pharmacy in St. Louis	806	806	0	0	0	806	806	0	0	0
Washington U., Saint Louis	60,948	42,940	1,040	11,453	5,515	51,782	38,626	1,040	10,080	2,036
Montana										
Public										
Montana State U., Bozeman	14,803	8,679	1,128	2,246	2,750	14,351	8,463	1,128	2,246	2,514
Montana Technological U.	181	161	0	0	20	174	154	0	0	20
Salish Kootenai C.	27	27	0	0	0	27	27	0	0	0
U. Montana, Missoula	7,007	6,182	589	72	164	6,881	6,114	543	72	152
Nebraska										
Public										
U. Nebraska, central administration	10,003	9,998	0	5	0	10,003	9,998	0	5	0
U. Nebraska, Kearney	46	22	0	0	24	39	15	0	0	24
U. Nebraska, Lincoln	12,123	9,639	179	777	1,528	11,255	9,275	147	648	1,185
U. Nebraska, Medical Center	12,441	7,490	1,265	3,463	223	11,549	7,472	843	3,192	42
U. Nebraska, Omaha	956	946	0	10	0	857	852	0	5	0
Private										

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Creighton U.	932 i	614 i	143 i	175 i	0 i	932 i	614 i	143 i	175 i	0 i
Doane U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Nevada										
Public										
Desert Research Institute	1,009	473	521	15	0	443	440	3	0	0
U. Nevada, Las Vegas	5,383	4,728	319	250	86	4,814	4,389	319	20	86
U. Nevada, Reno	7,858	5,709	826	317	1,006	7,686	5,546	817	317	1,006
Private										
Roseman U. of Health Sciences	0	0	0	0	0	0	0	0	0	0
New Hampshire										
Public										
Keene State C.	32	0	0	0	32	32	0	0	0	32
U. New Hampshire	14,483	9,098	1,911	3,158	316	14,023	8,756	1,811	3,140	316
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	28,558	19,367	2,525	5,612	1,054	24,137	17,698	1,674	3,734	1,031
New Jersey										
Public										
C. New Jersey	0	0	0	0	0	0	0	0	0	0
Kean U.	0	0	0	0	0	0	0	0	0	0
Montclair State U.	1,186	375	0	811	0	93	93	0	0	0
New Jersey City U.	0	0	0	0	0	0	0	0	0	0
New Jersey Institute of Technology	33,989	4,852	19,950	1,255	7,932	33,653	4,700	19,825	1,255	7,873
Rowan U.	1,623	1,093	27	503	0	1,150	736	24	390	0
Rutgers, State U. New Jersey, Camden	180	43	0	0	137	180	43	0	0	137
Rutgers, State U. New Jersey, New Brunswick	42,761	29,055	5,580	2,833	5,293	39,785	27,384	5,061	2,372	4,968
Rutgers, State U. New Jersey, Newark	1,423	947	422	0	54	1,423	947	422	0	54
Stockton U.	300	0	300	0	0	0	0	0	0	0
William Paterson U.	0	0	0	0	0	0	0	0	0	0
Private										
Monmouth U.	995	55	0	940	0	0	0	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Princeton U.	37,772	32,889	1,331	98	3,454	33,890	29,356	1,276	98	3,160
Seton Hall U.	138	138	0	0	0	138	138	0	0	0
Stevens Institute of Technology	6,755	6,580	140	32	3	6,639	6,512	127	0	0
New Mexico										
Public										
New Mexico Highlands U.	0	0	0	0	0	0	0	0	0	0
New Mexico Institute of Mining and Technology	2,623	2,107	511	0	5	2,623	2,107	511	0	5
New Mexico State U.	8,903	4,139	3,576	908	280	8,553	3,852	3,576	908	217
U. New Mexico	22,280	13,348	2,790	4,676	1,466	21,035	13,051	2,787	4,117	1,080
New York										
Public										
CUNY, Advanced Science Research Center	2,294	2,294	0	0	0	2,294	2,294	0	0	0
CUNY, Baruch C.	70	70	0	0	0	0	0	0	0	0
CUNY, Brooklyn C.	570	250	118	202	0	428	177	114	137	0
CUNY, C. Staten Island	250	86	0	154	10	177	86	0	81	10
CUNY, City C.	4,626	3,171	166	1,287	2	4,170	2,894	63	1,211	2
CUNY, Graduate Center	515	169	0	346	0	492	169	0	323	0
CUNY, Graduate School of Public Health and Health Policy	434	224	41	169	0	419	209	41	169	0
CUNY, Hunter C.	2,588	1,162	206	940	280	2,533	1,107	206	940	280
CUNY, John Jay C. of Criminal Justice	1,904	873	718	225	88	1,313	471	718	124	0
CUNY, Lehman C.	143	143	0	0	0	143	143	0	0	0
CUNY, Medgar Evers C.	32	32	0	0	0	32	32	0	0	0
CUNY, New York City C. of Technology	126	126	0	0	0	126	126	0	0	0
CUNY, Queens C.	1,938	697	577	664	0	1,833	642	527	664	0
CUNY, system office	230	230	0	0	0	230	230	0	0	0
CUNY, York C.	3	0	0	3	0	3	0	0	3	0
SUNY, Binghamton U.	4,824	2,366	2,165	212	81	3,496	2,354	849	212	81
SUNY, Buffalo State	69	69	0	0	0	69	69	0	0	0
SUNY, C. Brockport	97	19	0	0	78	14	14	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
SUNY, C. of Environmental Science and Forestry	1,015	487	388	45	95	544	332	112	17	83
SUNY, C. of Optometry	35	35	0	0	0	35	35	0	0	0
SUNY, C. Plattsburgh	100	0	0	0	100	100	0	0	0	100
SUNY, Downstate Medical Center	8,385	7,600	23	20	742	8,360	7,598	0	20	742
SUNY, Geneseo	14	14	0	0	0	14	14	0	0	0
SUNY, Oswego	0	0	0	0	0	0	0	0	0	0
SUNY, Polytechnic Institute	23,206	17,824	5,312	70	0	9,896	5,567	4,329	0	0
SUNY, Stony Brook U.	20,203	16,866	1,192	1,611	534	19,507	16,720	1,166	1,131	490
SUNY, U. Albany	13,108	8,338	3,557	898	315	9,497	7,490	917	801	289
SUNY, U. Buffalo	20,895	12,656	2,175	6,064	0	17,053	12,205	647	4,201	0
SUNY, Upstate Medical U.	2,114	1,339	308	467	0	1,941	1,277	308	356	0
U.S. Military Academy	215	125	90	0	0	125	125	0	0	0
Private										
Albany C. of Pharmacy and Health Sciences	201	201	0	0	0	201	201	0	0	0
Albany Medical C.	923	699	0	224	0	923	699	0	224	0
Albert Einstein C. of Medicine	28,555	19,763	2,116	5,252	1,424	28,461	19,694	2,116	5,227	1,424
Alfred U.	48	36	12	0	0	36	36	0	0	0
Barnard C.	552	552	0	0	0	552	552	0	0	0
Clarkson U.	1,081	348	487	246	0	850	238	367	245	0
Cold Spring Harbor Laboratory	7,425 i	4,444 i	1,454 i	1,433 i	94 i	6,778 i	4,444 i	1,008 i	1,246 i	80 i
Colgate U.	85	85	0	0	0	85	85	0	0	0
Columbia U. in the City of New York	104,373	65,969	1,968	28,837	7,599	99,604	63,161	1,683	28,486	6,274
Cornell U.	106,704	57,704	9,592	20,518	18,890	80,888	52,064	7,454	16,051	5,319
Fordham U.	152	111	0	41	0	152	111	0	41	0
Hamilton C.	0	0	0	0	0	0	0	0	0	0
Hobart and William Smith Colleges	14	0	0	14	0	14	0	0	14	0
Hofstra U.	203	63	0	6	134	63	63	0	0	0
Icahn School of Medicine at Mount Sinai	78,584	42,719	4,678	23,975	7,212	74,827	41,314	4,495	21,976	7,042
Ithaca C.	151	47	0	104	0	151	47	0	104	0
Long Island U.	168	168	0	0	0	168	168	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Manhattan C.	0	0	0	0	0	0	0	0	0	0
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	0	0	0	0	0	0	0	0	0	0
New School	2,331	265	81	1,703	282	51	41	10	0	0
New York Institute of Technology	92	41	0	51	0	92	41	0	51	0
New York Medical C.	1,248	1,048	30	170	0	1,048	1,048	0	0	0
New York U.	64,569	11,962	5,707	44,496	2,404	56,499	10,055	4,570	40,907	967
Niagara U.	0	0	0	0	0	0	0	0	0	0
Pace U.	626	260	0	366	0	626	260	0	366	0
Rensselaer Polytechnic Institute	6,467	4,468	648	1,091	260	5,870	4,215	505	1,071	79
Rochester Institute of Technology	2,392	1,774	344	152	122	2,090	1,490	339	139	122
Rockefeller U.	10,483	6,689	153	2,590	1,051	8,274	5,558	153	2,223	340
Skidmore C.	491	116	0	375	0	491	116	0	375	0
St. Bonaventure U.	59	58	0	0	1	59	58	0	0	1
St. John's U., New York	21 i	21 i	0 i	0 i	0 i	21 i	21 i	0 i	0 i	0 i
Syracuse U.	5,130	2,634	521	1,878	97	3,292	2,505	440	250	97
Teachers C., Columbia U.	2,498	1,351	0	682	465	1,144	592	0	365	187
U. Rochester	31,493	22,321	2,008	4,142	3,022	28,845	21,036	1,748	3,806	2,255
Union C., Schenectady	0	0	0	0	0	0	0	0	0	0
Vassar C.	202	202	0	0	0	202	202	0	0	0
Yeshiva U.	0	0	0	0	0	0	0	0	0	0
North Carolina										
Public										
Appalachian State U.	110	72	17	21	0	72	72	0	0	0
East Carolina U.	2,366	897	0	640	829	2,226	841	0	628	757
Elizabeth City State U.	0	0	0	0	0	0	0	0	0	0
Fayetteville State U.	26	26	0	0	0	26	26	0	0	0
North Carolina Agricultural and Technical State U.	2,197	2,115	72	10	0	2,171	2,089	72	10	0
North Carolina Central U.	447	346	101	0	0	287	287	0	0	0
North Carolina State U.	43,571	95 i	19,020 i	13,392 i	11,064 i	39,542	95 i	17,351 i	12,249 i	9,847 i

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. North Carolina, Asheville	543	23	0	484	36	166	23	0	107	36
U. North Carolina, Chapel Hill	134,183	74,332	29,059	22,968	7,824	125,442	70,665	28,177	20,581	6,019
U. North Carolina, Charlotte	3,050	2,728	222	35	65	2,980	2,693	222	0	65
U. North Carolina, general administration	3,914	3,914	0	0	0	544	544	0	0	0
U. North Carolina, Greensboro	2,811	1,227	729	443	412	2,751	1,227	729	412	383
U. North Carolina, Wilmington	1,646	1,299	209	134	4	1,513	1,289	209	11	4
Western Carolina U.	128	81	0	0	47	128	81	0	0	47
Winston-Salem State U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Private										
Davidson C.	81	81	0	0	0	69	69	0	0	0
Duke U.	163,526	44,515	117,121	1,325	565	92,899	39,557	52,512	733	97
Elon U.	5	5	0	0	0	5	5	0	0	0
Johnson C. Smith U.	0	0	0	0	0	0	0	0	0	0
Wake Forest U.	34,408	25,100	250	8,436	622	30,934	22,326	220	8,133	255
North Dakota										
Public										
North Dakota State U.	5,549	4,592	777	0	180	4,621	3,682	770	0	169
U. North Dakota	9,939	2,797	5,351	1,692	99	7,559	2,753	3,090	1,688	28
Ohio										
Public										
Air Force Institute of Technology	35	35	0	0	0	35	35	0	0	0
Bowling Green State U.	950	875	29	3	43	828	794	29	0	5
Central State U.	191	145	0	0	46	168	145	0	0	23
Cleveland State U.	728	404	85	217	22	523	284	0	217	22
Kent State U.	1,388	912	0	444	32	1,357	904	0	421	32
Miami U.	928	778	32	118	0	775	714	32	29	0
Northeast Ohio Medical U.	161	94	0	6	61	151	90	0	0	61
Ohio State U.	87,406	55,134	6,003	23,597	2,672	63,509	39,475	3,939	17,896	2,199
Ohio U.	1,517	1,312	132	73	0	937	754	110	73	0
U. Akron	553	523	20	10	0	473	473	0	0	0
U. Cincinnati	17,465	8,158	396	8,860	51	15,001	7,389	306	7,262	44
U. Toledo	2,673	2,047	135	440	51	2,397	1,801	108	440	48

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Wright State U.	16,056	6,801	6,171	2,895	189	11,805	2,966	6,141	2,636	62
Youngstown State U.	1,435	314	805	283	33	1,435	314	805	283	33
Private										
C. Wooster	0	0	0	0	0	0	0	0	0	0
Case Western Reserve U.	46,581	32,168	1,680	10,243	2,490	44,294	30,979	1,630	9,591	2,094
Heidelberg U.	0	0	0	0	0	0	0	0	0	0
Kenyon C.	0	0	0	0	0	0	0	0	0	0
Oberlin C.	0	0	0	0	0	0	0	0	0	0
U. Dayton	24,434	3,969	19,969	448	48	24,415	3,969	19,969	448	29
Oklahoma										
Public										
Langston U.	737	605	106	26	0	737	605	106	26	0
Oklahoma State U., Center for Health Sciences	593	388	47	42	116	585	385	47	42	111
Oklahoma State U., Stillwater	4,478	3,675	91	615	97	3,603	3,124	91	339	49
U. Central Oklahoma	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Oklahoma, Norman and Health Science Center	49,334	11,439	30,138	7,289	468	47,124	10,265	29,415	7,096	348
U. Oklahoma, Tulsa	36	36	0	0	0	0	0	0	0	0
Private										
U. Tulsa	880	751	76	30	23	777	747	0	30	0
Oregon										
Public										
Oregon Health and Science U.	53,380	27,858	12,199	6,470	6,853	47,244	24,969	11,025	6,121	5,129
Oregon Institute of Technology	0	0	0	0	0	0	0	0	0	0
Oregon State U.	20,013	13,956	3,102	1,609	1,346	17,949	12,297	3,075	1,435	1,142
Portland State U.	4,947	4,217	182	359	189	4,658	4,162	126	226	144
U. Oregon	7,433	5,384	88	1,493	468	7,116	5,122	33	1,493	468
Private										
Lewis and Clark C.	0	0	0	0	0	0	0	0	0	0
National U. of Natural Medicine	47	47	0	0	0	47	47	0	0	0
Pacific U.	237	237	0	0	0	237	237	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Reed C.	21	21	0	0	0	21	21	0	0	0
Willamette U.	0	0	0	0	0	0	0	0	0	0
Pennsylvania										
Public										
Indiana U. Pennsylvania	95	68	0	27	0	95	68	0	27	0
Pennsylvania State U., Behrend	350	98 i	177 i	61 i	14 i	55	34 i	10 i	5 i	6 i
Pennsylvania State U., Harrisburg	24	24	0	0	0	24	24	0	0	0
Pennsylvania State U., University Park and Hershey Medical Center	79,211	38,900 i	17,122 i	11,824 i	11,365 i	41,958	23,880 i	7,952 i	5,614 i	4,512 i
Temple U.	16,119	10,993	1,779	3,076	271	14,182	9,944	1,017	2,961	260
U. Pittsburgh, Pittsburgh	86,039	53,726	8,076	20,570	3,667	78,773	49,512	7,794	18,436	3,031
West Chester U. Pennsylvania	59	59	0	0	0	49	49	0	0	0
Private										
Bryn Mawr C.	672	0	0	672	0	672	0	0	672	0
Bucknell U.	170 i	24 i	0 i	146 i	0 i	45 i	24 i	0 i	21 i	0 i
Carnegie Mellon U.	23,820	19,212	2,775	983	850	21,912	17,825	2,587	876	624
Dickinson C.	0	0	0	0	0	0	0	0	0	0
Drexel U.	12,442	7,780	793	2,146	1,723	9,773	7,089	348	1,726	610
Duquesne U.	949	939	0	10	0	936	926	0	10	0
Franklin and Marshall C.	0	0	0	0	0	0	0	0	0	0
Gettysburg C.	169	151	0	18	0	28	24	0	4	0
Haverford C.	15	15	0	0	0	15	15	0	0	0
La Salle U.	0	0	0	0	0	0	0	0	0	0
Lafayette C.	25	25	0	0	0	25	25	0	0	0
Lehigh U.	2,454	2,105	247	91	11	1,608	1,270	247	91	0
Mercyhurst U.	70 i	0 i	20 i	28 i	22 i	39 i	0 i	9 i	19 i	11 i
Philadelphia C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
Saint Joseph's U.	183	165	0	18	0	165	165	0	0	0
Swarthmore C.	107	107	0	0	0	71	71	0	0	0
Thomas Jefferson U.	8,500	5,631	85	2,006	778	7,808	5,128	57	1,873	750
U. of the Sciences Philadelphia	95	95	0	0	0	24	24	0	0	0
U. Pennsylvania	108,559	57,403	3,789	27,040	20,327	82,241	51,706	3,409	20,958	6,168

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Villanova U.	404	231	101	72	0	295	221	2	72	0
Rhode Island										
Public										
Naval War C.	0	0	0	0	0	0	0	0	0	0
Rhode Island C.	496	285	0	211	0	162	162	0	0	0
U. Rhode Island	13,198	7,275	2,543	1,110	2,270	12,287	6,880	2,478	966	1,963
Private										
Brown U.	29,657	17,921	2,897	8,245	594	28,702	17,633	2,469	8,006	594
Providence C.	0	0	0	0	0	0	0	0	0	0
Rhode Island School of Design	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Roger Williams U.	112	106	0	0	6	105	99	0	0	6
South Carolina										
Public										
C. Charleston	834	834	0	0	0	834	834	0	0	0
Citadel Military C. South Carolina	0	0	0	0	0	0	0	0	0	0
Clemson U.	13,891	5,605 i	2,325 i	3,650 i	2,311 i	9,448	5,605 i	2,040 i	253 i	1,550 i
Coastal Carolina U.	129	129	0	0	0	129	129	0	0	0
Medical U. South Carolina	20,563	10,128	4,158	3,825	2,452	17,444	9,128	3,182	2,813	2,321
South Carolina State U.	602 i	512 i	51 i	34 i	5 i	602 i	512 i	51 i	34 i	5 i
U. South Carolina, Aiken	100	100	0	0	0	95	95	0	0	0
U. South Carolina, Columbia	18,200	14,576	766	1,918	940	15,708	12,998	645	1,582	483
Winthrop U.	0	0	0	0	0	0	0	0	0	0
Private										
Benedict C.	24	24	0	0	0	24	24	0	0	0
Claflin U.	9	9	0	0	0	9	9	0	0	0
Furman U.	3	3	0	0	0	3	3	0	0	0
South Dakota										
Public										
Black Hills State U.	0	0	0	0	0	0	0	0	0	0
Dakota State U.	89	89	0	0	0	89	89	0	0	0
South Dakota School of Mines and Technology	1,761	1,623	100	38	0	1,668	1,530	100	38	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
South Dakota State U.	5,292	4,877	206	6	203	4,850	4,441	206	0	203
U. South Dakota	3,584	2,800	0	784	0	3,365	2,758	0	607	0
Tennessee										
Public										
Austin Peay State U.	0	0	0	0	0	0	0	0	0	0
East Tennessee State U.	602	600	2	0	0	519	519	0	0	0
Middle Tennessee State U.	811	772	39	0	0	811	772	39	0	0
Tennessee State U.	182	94	81	0	7	98	83	8	0	7
Tennessee Technological U.	826	319	222	3	282	826	319	222	3	282
U. Memphis	3,072	2,552	159	58	303	2,947	2,526	159	58	204
U. Tennessee, Chattanooga	37	37	0	0	0	37	37	0	0	0
U. Tennessee, Health Science Center	6,562	4,969	702 i	495 i	396 i	6,562	4,969	702 i	495 i	396 i
U. Tennessee, Knoxville[c]	20,519	17,324	1,374 i	1,063 i	758 i	17,414	15,013	1,056 i	745 i	600 i
Private										
Fisk U.	393	145	248	0	0	393	145	248	0	0
Lipscomb U.	84 i	44 i	13 i	19 i	8 i	70 i	40 i	8 i	17 i	5 i
Meharry Medical C.	480	432	0	48	0	480	432	0	48	0
Vanderbilt U. and Vanderbilt U. Medical Center	93,832	67,304	8,170	16,319	2,039	84,551	59,883	7,402	15,292	1,974
Texas										
Public										
Lamar U.	0	0	0	0	0	0	0	0	0	0
Midwestern State U.	0	0	0	0	0	0	0	0	0	0
Prairie View A&M U.	392	289	0	103	0	392	289	0	103	0
Sam Houston State U.	320	320	0	0	0	227	227	0	0	0
Stephen F. Austin State U.	20	20	0	0	0	20	20	0	0	0
Sul Ross State U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Tarleton State U.	177	82	0	0	95	150	82	0	0	68
Texas A&M International U.	26	21	5	0	0	26	21	5	0	0
Texas A&M U., College Station and Health Science Center	193,984	27,442	159,181	3,846	3,515	174,913	24,229	145,841	3,423	1,420
Texas A&M U.-Commerce	20	20	0	0	0	20	20	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Texas A&M U.-Corpus Christi	5,281	3,282	1,835	100	64	4,022	3,036	822	100	64
Texas A&M U.-Kingsville	597	506	0	74	17	510	479	0	14	17
Texas Southern U.	641	641	0	0	0	641	641	0	0	0
Texas State U.	2,371	1,431	567	88	285	2,335	1,396	566	88	285
Texas Tech U.	3,658	2,220	1,409	15	14	2,297	1,131	1,158	8	0
Texas Tech U., Health Sciences Center	1,035	883	82	70	0	1,035	883	82	70	0
Texas Tech U., Health Sciences Center, El Paso	63	0	0	0	63	0	0	0	0	0
Texas Woman's U.	0	0	0	0	0	0	0	0	0	0
U. Houston	11,680	4,905	1,429	1,938	3,408	8,813	4,305	1,166	946	2,396
U. Houston-Clear Lake	10	10	0	0	0	0	0	0	0	0
U. Houston-Downtown	211	160	0	0	51	160	160	0	0	0
U. North Texas, Denton	1,139	951	0	139	49	967	929	0	0	38
U. North Texas, Health Science Center	3,591	2,951	62	540	38	3,485	2,937	30	480	38
U. Texas Health Science Center, Houston	18,106	14,173	463	2,242	1,228	16,150	13,355	153	1,871	771
U. Texas Health Science Center, San Antonio	14,361	12,636	215	1,002	508	13,361	11,902	215	736	508
U. Texas Health Science Center, Tyler	327	0	0	0	327	327	0	0	0	327
U. Texas M. D. Anderson Cancer Center	26,079	16,017	1,190	8,263	609	17,572	10,451	922	5,619	580
U. Texas Medical Branch	16,311	10,140	3,901	403	1,867	15,367	10,140	3,901	403	923
U. Texas of the Permian Basin	0	0	0	0	0	0	0	0	0	0
U. Texas Rio Grande Valley	1,882	1,365	0	182	335	1,882	1,365	0	182	335
U. Texas Southwestern Medical Center	25,737	12,925	1,387	7,825	3,600	22,621	12,413	1,307	6,880	2,021
U. Texas, Arlington	9,588	7,163	630	1,661	134	8,929	6,504	630	1,661	134
U. Texas, Austin	43,885	30,761	3,721	6,665	2,738	34,446	26,437	2,243	4,776	990
U. Texas, Dallas	1,527	0	0	0	1,527	1,434	0	0	0	1,434
U. Texas, El Paso	5,633	4,335	47	745	506	5,475	4,190	47	732	506
U. Texas, San Antonio	4,806	3,518	569	266	453	2,907	2,223	481	203	0
U. Texas, Tyler	118	118	0	0	0	118	118	0	0	0
West Texas A&M U.	34	34	0	0	0	34	34	0	0	0
Private										
Baylor C. of Medicine	57,770	49,818	3,423	4,474	55	52,520	45,959	2,979	3,527	55

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Baylor U.	2,139	1,427	121	517	74	993	708	0	285	0
Rice U.	20,291	10,715	4,785	1,603	3,188	12,598	9,815	741	1,603	439
Southern Methodist U.	2,251	1,893	0	0	358	2,251	1,893	0	0	358
St. Edward's U.	30	30	0	0	0	30	30	0	0	0
Texas Christian U.	297	291	6	0	0	107	101	6	0	0
Trinity U.	2	0	0	2	0	2	0	0	2	0
U. of the Incarnate Word	0	0	0	0	0	0	0	0	0	0
Utah										
Public										
U. Utah	39,881	2,383	462	3,183	33,853	35,782	1,227	0	865	33,690
Utah State U.	46,317	11,180	34,460	0	677	45,462	10,953	33,844	0	665
Weber State U.	30	0	30	0	0	0	0	0	0	0
Private										
Brigham Young U., Provo	3,864	2,494	572	138	660	3,213	2,216	539	0	458
Vermont										
Public										
U. Vermont	15,473	12,385	620	1,924	544	12,046	10,514	483	683	366
Private										
Middlebury C.	77	77	0	0	0	77	77	0	0	0
Saint Michael's C.	28	28	0	0	0	28	28	0	0	0
Virginia										
Public										
Christopher Newport U.	222	37	105	57	23	117	37	0	57	23
Eastern Virginia Medical School	2,421	2,227	42	112	40	2,286	2,119	42	85	40
George Mason U.	48,371	6,265	39,604	1,367	1,135	47,267	5,982	39,009	1,171	1,105
James Madison U.	405	405	NA	NA	NA	405	405	0	0	0
Norfolk State U.	2,542	2,542	0	0	0	2,542	2,542	0	0	0
Old Dominion U.	3,642	1,704	728	1,156	54	2,466	1,356	482	574	54
U. of Mary Washington	0	0	0	0	0	0	0	0	0	0
U. Virginia, Charlottesville	43,996	29,861	3,240	8,332	2,563	36,340	26,361	1,964	6,569	1,446
Virginia Commonwealth U.	21,311	15,217	1,583	4,026	485	17,557	12,014	1,281	3,830	432

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
Virginia Polytechnic Institute and State U.	31,862	18,991	4,700	3,924	4,247	26,909	18,172	3,625	2,870	2,242
Virginia State U.	526	53	0	473	0	526	53	0	473	0
William & Mary	5,221	2,293	605	998	1,325	4,988	2,213	477	979	1,319
Private										
Edward Via C. of Osteopathic Medicine	69	69	0	0	0	0	0	0	0	0
Hampton U.	2,691	2,511	0	0	180	2,691	2,511	0	0	180
Liberty U.	0	0	0	0	0	0	0	0	0	0
U. Richmond	291	245	0	29	17	281	235	0	29	17
Washington										
Public										
Central Washington U.	8	8	0	0	0	8	8	0	0	0
Eastern Washington U.	50	39	0	1	10	50	39	0	1	10
Northwest Indian C.	607 i	607 i	0 i	0 i	0 i	607 i	607 i	0 i	0 i	0 i
U. Washington, Bothell	330	189	0	81	60	309	168	0	81	60
U. Washington, Seattle	145,203	75,646	4,505	58,636	6,416	119,992	65,863	2,429	47,580	4,120
U. Washington, Tacoma	98	47	4	9	38	98	47	4	9	38
Washington State U.	21,937	13,853	1,617	6,063	404	20,193	13,037	1,431	5,367	358
Western Washington U.	271	0	0	0	271	0	0	0	0	0
Private										
Seattle U.	27	27	0	0	0	27	27	0	0	0
U. Puget Sound	0	0	0	0	0	0	0	0	0	0
Whitman C.	0	0	0	0	0	0	0	0	0	0
West Virginia										
Public										
Marshall U.	2,224	2,081	67	76	0	2,019	1,876	67	76	0
West Virginia School of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0
West Virginia State U.	0	0	0	0	0	0	0	0	0	0
West Virginia U.	12,618	6,677	3,895	1,319	727	11,413	6,548	3,736	616	513
Wisconsin										
Public										

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Wisconsin-Eau Claire	10	10	0	0	0	10	10	0	0	0
U. Wisconsin-Green Bay	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Wisconsin-La Crosse	12	12	0	0	0	0	0	0	0	0
U. Wisconsin-Madison	93,517	61,936	5,889	17,480	8,212	86,929	59,511	4,506	15,100	7,812
U. Wisconsin-Milwaukee	5,973	5,630	63	25	255	5,894	5,559	55	25	255
U. Wisconsin-Oshkosh	103 i	0 i	23 i	23 i	57 i	93 i	0 i	21 i	21 i	51 i
U. Wisconsin-Platteville	29 i	20 i	3 i	5 i	1 i	27 i	18 i	3 i	5 i	1 i
U. Wisconsin-River Falls	84	84	0	0	0	84	84	0	0	0
U. Wisconsin-Stevens Point	411	265	0	126	20	392	246	0	126	20
U. Wisconsin-Superior	0	0	0	0	0	0	0	0	0	0
Private										
Marquette U.	1,741	1,225	244	216	56	1,628	1,148	244	180	56
Medical C. Wisconsin	27,225	9,902	5,974	11,349	0	25,663	8,409	5,965	11,289	0
Milwaukee School of Engineering	21	21	0	0	0	21	21	0	0	0
Wyoming										
Public										
U. Wyoming	6,154	3,374	2,033	715	32	6,084	3,343	2,033	676	32
Guam										
Public										
U. Guam	35	0	0	0	35	35	0	0	0	35
Puerto Rico										
Public										
U. Puerto Rico, Cayey	158	158	0	0	0	158	158	0	0	0
U. Puerto Rico, Humacao	208	208	0	0	0	208	208	0	0	0
U. Puerto Rico, Mayaguez	1,847	1,847	0	0	0	1,847	1,847	0	0	0
U. Puerto Rico, Medical Sciences Campus	1,995	1,995	0	0	0	1,995	1,995	0	0	0
U. Puerto Rico, Rio Piedras	2,082	2,082	0	0	0	2,070	2,070	0	0	0
Private										
Polytechnic U. Puerto Rico	0	0	0	0	0	0	0	0	0	0
Ponce Health Sciences U.	0	0	0	0	0	0	0	0	0	0
U. Ana G. Mendez, Carolina	0	0	0	0	0	0	0	0	0	0

TABLE 76

Total and federally financed higher education R&D expenditures passed through to subrecipients, by state, institutional control, and institution: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Total					Federally financed				
	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients	All R&D expenditures passed through	To higher education subrecipients	To businesses	To nonprofit organizations	To other subrecipients
U. Ana G. Mendez, Gurabo	0	0	0	0	0	0	0	0	0	0
U. Central del Caribe	0	0	0	0	0	0	0	0	0	0
Virgin Islands										
Public										
U. of the Virgin Islands	612	230	382	0	0	612	230	382	0	0

i = imputed. NA = not available; data were not provided by institution.

[a] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[b] Johns Hopkins University includes the Applied Physics Laboratory, with zero in both total and federally financed R&D expenditures passed through to subrecipients in FY 2020.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in 2019. Institutions reporting less than $1 million in total R&D expenditures in 2019 completed a shorter version of the survey form in FY 2020, and that form requested R&D expenditures passed through only to higher education institutions. For a list of R&D expenditures passed through to higher education institutions at institutions completing the shorter version of the survey, see table 84.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 77

FTEs and headcount of R&D personnel at higher education institutions, by personnel function: FY 2020

(Number)

FTEs and headcounts	All personnel functions	Researchers	R&D technicians	R&D support staff
FTE R&D personnel	440,035	175,941	169,389	94,705
All R&D personnel headcounts	955,735	347,663	342,924	265,148

FTEs = full-time equivalents.

Note(s):
FTE R&D personnel are calculated as the total working effort spent on R&D during a specific period divided by the total effort representing a full-time schedule within the same period.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions	-	58,387,551	61,988,017	62,198,981	63,354,376	63,766,242	64,935,600	67,634,588	70,846,712	74,384,893	78,669,198	81,260,563
Johns Hopkins U.[a]	1	1,997,252	2,135,547	2,092,999 i	2,149,770 i	2,227,536 i	2,299,057 i	2,425,199 i	2,556,641 i	2,656,152 i	2,913,280 i	3,104,669 i
U. California, San Francisco	2	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073
U. Michigan, Ann Arbor	3	1,128,686	1,212,990	1,247,680	1,304,074	1,279,603	1,300,340	1,357,228	1,434,535	1,493,353	1,571,320	1,572,931
U. Pennsylvania	4	793,523	851,522	813,210	790,265	792,314	828,649	1,140,833	1,247,686	1,304,291	1,368,837	1,432,968
U. California, San Diego	5	937,982	1,003,584	1,065,306	1,066,979	1,060,207	1,093,784	1,079,429	1,126,269	1,256,171	1,344,185	1,395,348
U. Washington, Seattle	6	995,036	1,112,526	1,065,414	1,111,508	1,091,135	1,101,078	1,197,773	1,270,642	1,342,509	1,347,667	1,371,333
U. California, Los Angeles	7	899,677	942,450	969,682	934,135	920,183	992,009	1,002,013	1,037,780	1,242,619	1,249,535	1,338,707
U. Wisconsin-Madison	8	940,286	1,022,723	1,030,605	997,523	984,830	938,366	1,051,311	1,105,261	1,113,968	1,209,224	1,272,053
Duke U.	9	980,514	1,018,241	1,004,759	987,393	1,031,404	1,029,193	1,044,046	1,113,921	1,153,947	1,212,928	1,180,209
Stanford U.	10	810,300	868,393	854,580	900,547	912,244	969,643	1,012,351	1,055,418	1,106,314	1,158,689	1,159,809
Cornell U.	11	747,199	779,809	799,794	841,224	874,727	946,419	956,184	963,166	1,033,740	1,103,810	1,147,119
Harvard U.	12	561,703	623,116	753,973	910,569	875,964	955,246	1,011,950	1,032,590	1,066,612	1,129,158	1,116,344
U. North Carolina, Chapel Hill	13	746,828	846,499	864,748	942,467	955,601	939,252	1,013,128	1,061,535	1,094,063	1,113,654	1,115,776
U. Pittsburgh, Pittsburgh	14	806,014	880,425	839,793	846,556	835,838	852,333	880,508	930,198	995,762	1,068,746	1,092,847
Texas A&M U., College Station and Health Science Center	15	666,516	682,553	669,968	796,101	826,152	836,250	859,952	869,100	882,191	911,375	1,089,944
Yale U.	16	621,125	654,259	654,824	787,609	764,002	792,953	865,970	930,569	972,856	1,056,640	1,079,696
U. Texas M. D. Anderson Cancer Center	17	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496	1,051,297
U. Maryland[b]	18	na	na	na	na	na	na	na	na	na	1,047,276	1,047,911
Georgia Institute of Technology	19	611,226	650,588	683,894	726,377	720,248	757,116	780,118	785,603	859,009	931,076	1,017,808
U. Minnesota, Twin Cities	20	764,916	824,489	806,832	834,181	850,880	844,016	872,514	881,286	915,798	970,212	999,314

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Columbia U. in the City of New York	21	770,888	841,173	847,809	845,847	844,766	826,010	793,710	848,733	908,771	965,696	981,906
Pennsylvania State U., University Park and Hershey Medical Center	22	762,041	776,945	783,894	825,011	785,705	774,384	809,985	826,683	885,661	924,031	970,457
Massachusetts Institute of Technology	23	646,222	693,714	770,367	833,884	815,008	858,917	880,111	878,964	893,508	940,079	926,053
Ohio State U.	24	719,574	794,023	720,082	743,321	752,836	745,238	751,293	804,699	818,428	876,402	914,199
U. Southern California	25	574,366	579,717	593,003	610,382	650,506	650,457	662,029	725,528	854,673	869,142	899,507
Washington U., Saint Louis	26	693,749	707,404	689,035	665,484	646,756	680,150	726,622	740,005	797,267	866,478	894,681
U. Florida	27	636,607	686,048	649,988	642,502	652,341	699,750	741,945	766,469	831,362	880,771	889,677
New York U.	28	343,762	402,327	425,043	435,095	490,614	505,071	751,393	822,329	801,961	845,249	858,190
Northwestern U.	29	554,228	595,202	602,451	612,009	621,504	627,320	684,767	724,060	776,458	827,607	847,679
U. California, Davis	30	669,282	698,193	704,999	715,870	699,689	706,087	726,070	726,469	774,775	791,184	804,674
U. California, Berkeley	31	659,572	670,926	696,904	690,299	708,485	748,139	734,486	724,817	747,690	751,584	796,303
Emory U.	32	498,309	479,678 i	474,537	493,734	551,556 i	574,472	597,971	646,146	693,172	773,843	780,693
Vanderbilt U. and Vanderbilt U. Medical Center	33	478,345	534,806	533,878	548,086	659,418	619,866	612,351	681,286	702,128	730,378	774,717
Icahn School of Medicine at Mount Sinai	34	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014
U. Arizona	35	577,958	597,988	615,434	616,487	575,864	592,874	592,412	609,965	672,038	715,290	743,233
U. Texas, Austin	36	531,412	558,377	549,312	572,959	526,173	551,654	565,708	598,597	617,567	619,929	726,915
Indiana U., Bloomington	37	156,996	160,038	151,240	173,464	172,380	451,508	471,055	507,553	534,811	630,449	692,746
Baylor C. of Medicine	38	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920	685,641

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Michigan State U.	39	399,358	423,766	471,620	479,145	492,501	519,994	573,204	653,611	673,959	682,018	674,384
Rutgers, State U. New Jersey, New Brunswick	40	407,170	415,502	420,737	474,192	627,076	607,257	610,648	633,789	666,368	621,194	661,656
U. Illinois, Urbana-Champaign	41	493,386	522,769	558,022	721,587	598,531	614,011	587,264	602,641	609,984	640,880	658,561
Purdue U., West Lafayette	42	477,145	520,001	528,140	528,564	502,457	498,887	517,879	533,598	535,826	598,411	638,715
U. Alabama, Birmingham	43	483,862	497,680	449,108	434,882	421,475	509,586	531,492	553,651	575,060	595,361	608,545
U. Texas Southwestern Medical Center	44	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697	595,939
Arizona State U.	45	296,458	323,567	344,611	367,277	380,581	403,708	441,411	484,315	559,391	572,588	594,927
U. Virginia, Charlottesville	46	271,843	377,757	363,569	366,103	337,732	339,813	367,926	431,793	490,902	547,179	584,678
U. Utah	47	375,420	410,392	425,558	486,245	476,017	509,409	322,670	318,956	534,208 i	548,714 i	577,238 i
Boston U.	48	344,687	348,593	330,247	359,312	353,850	372,267	379,117	398,754	435,864	508,813	554,084
U. Colorado Denver and Anschutz Medical Campus	49	376,917	407,517	422,844	400,815	401,230	400,515	432,693	472,859	517,749	535,819	547,481
Virginia Polytechnic Institute and State U.	50	393,888	445,302	448,054	487,121	502,486	495,502	512,333	511,340	520,575	532,154	546,172
North Carolina State U.	51	357,802	374,446	400,046	413,524	440,392	462,347	479,039	488,974	497,851	523,124	528,089
U. Cincinnati	52	393,518	419,456	408,294	414,738	399,571	408,412	401,701	427,236	464,289	513,397	511,252
U. Iowa	53	435,118	433,088	432,980	423,097	436,852	423,528	447,718	466,462	484,253	483,809	510,793
U. Colorado Boulder	54	335,983	372,034	373,512	369,663	362,882	403,654	433,850	474,496	488,883	486,073	496,549
U. California, Irvine	55	311,105	328,870	335,874	329,500	322,315	313,798	325,582	339,309	399,295	422,781	456,453
U. Chicago	56	432,943	446,512	411,864	389,900	378,322	402,777	402,491	419,996	412,791	448,263	448,404

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Oregon Health and Science U.	57	314,990	334,324	305,360	307,134	313,112	325,268	329,414	346,710	372,148	415,629	446,826
Scripps Research Institute	58	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964
Case Western Reserve U.	59	417,805	428,206	430,246	422,041	417,436	400,167	403,827	406,196	430,379	435,852	437,725
U. Georgia	60	274,380	300,388	311,498	308,486	313,445	330,273	360,520	403,575	390,773	414,909	419,656
California Institute of Technology	61	359,245	374,636	374,075 i	333,548 i	358,137	350,833	356,204	380,711	363,007	375,558	418,697
U. Kentucky	62	350,857	364,175	354,132	332,366	322,313	325,558	340,295	367,934	382,973	398,384	406,131
SUNY, U. Buffalo	63	337,976	337,783	340,930	371,387	370,083	367,133	373,308	386,386	393,241	394,279	401,640
U. Illinois, Chicago	64	355,581	373,750	381,918	358,797	339,644	344,619	314,365	352,200	343,254	365,409	396,061
U. Rochester	65	412,704	428,144	388,401	382,399	347,161	344,921	344,489	351,924	369,072	392,275	395,774
Colorado State U., Fort Collins	66	291,621	321,130	335,336	303,461	300,572	308,785	323,068	328,221	356,951	382,252	384,044
Princeton U.	67	231,862	255,483	264,980	264,998	287,730	272,379	285,733	321,953	351,297	370,700	382,414
U. Miami	68	278,664	321,830	361,772	338,568	342,852	328,082	355,690	365,310	355,132	358,621	380,470
Carnegie Mellon U.	69	221,376	240,956	254,992	270,898	250,497	241,829	304,383	313,145	318,218	346,356	373,131
Rockefeller U.	70	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217
SUNY, Polytechnic Institute	71	na	na	na	na	412,851	295,313	316,680	308,843	257,316	352,788	355,519
U. Oklahoma, Norman and Health Science Center	72	201,187	223,828	217,177	220,916	227,104	227,568	240,239	250,627	262,863	283,375	337,624
Uniformed Services U. of the Health Sciences	73	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510
Iowa State U.	74	243,890	261,016	252,675	259,320	297,293	295,635	316,822	310,100	343,890	342,498	306,338
U. Missouri, Columbia	75	133,120	130,269	234,975	232,760	233,613	243,430	262,919	272,196	275,413	288,501	303,906
Utah State U.	76	147,612	172,563	155,305	156,774	167,256	173,848	178,830	184,746	215,994	280,476	300,894

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Washington State U.	77	285,120	299,905	288,693	273,037	287,942 i	306,989	307,431	288,629	289,326	302,309	294,831
U. Kansas	78	251,992	248,076	256,310	267,050	251,186	257,766	241,656	251,140	269,494	282,642	292,485
U. Tennessee, Knoxville[c]	79	133,877 i	151,814	165,708	175,264	170,471	166,591	177,240	199,356	233,705	221,726	292,314
Albert Einstein C. of Medicine	80	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654
U. South Florida, Tampa	81	330,528	343,366	394,694	410,092	436,578	420,002	447,812	502,216	334,944	330,968	287,339
Dartmouth C. and Dartmouth Hitchcock Medical Center	82	193,608	210,274	195,251	198,995	204,360	203,660	224,497	277,638	287,951	303,965	285,551
U. Nebraska, Lincoln	83	211,385	220,141	238,472	245,171	254,877	260,152	264,485	270,749	275,161	284,544	284,935
U. Massachusetts, Medical School	84	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096
Louisiana State U., Baton Rouge	85	280,432	281,221	279,019	276,748	282,462	274,001	282,574	258,402	278,075	287,203	277,811
Temple U.	86	115,543	122,663	126,288	207,190	206,556	210,371	232,379	249,156	253,548	263,217	274,258
U. Texas Health Science Center, Houston	87	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525	273,862
U. Hawaii, Manoa	88	303,085	318,316	312,311	326,402	319,818	313,046	300,864	288,294	272,971	277,704	273,320
Medical U. South Carolina	89	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590
U. Connecticut	90	230,387	247,252	250,468	236,126	247,379	251,621	257,958	257,176	256,826	273,034	270,397
Florida State U.	91	208,834	216,869	208,005	224,425	231,390	237,427	243,327	247,319	260,486	257,656	270,051
Mississippi State U.	92	223,032	217,793	222,320	197,359	200,251	216,817	229,939	233,024	235,581	255,674	264,367
Medical C. Wisconsin	93	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325
Oregon State U.	94	215,400	227,752	239,571	231,342	229,456	242,874	252,541	260,893	266,684	257,935	262,426
SUNY, Stony Brook U.	95	201,846	206,207	218,209	224,030	210,301	219,485	227,942	235,430	240,949	257,048	260,203
Brown U.	96	201,116	223,455	234,906	222,945	291,917 i	286,332 i	235,373	201,253	233,689	245,883	256,871

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Virginia Commonwealth U.	97	176,422	185,566	179,310	175,880	177,540	196,412	202,150	210,827	222,757	230,882	255,589
George Washington U.	98	189,113	189,427	187,652	192,152	213,334	226,132	214,984	226,005	242,029	249,198	249,745
U. California, Santa Barbara	99	217,952	217,877	222,916	225,976	225,614	213,537	219,907	225,767	223,349	230,097	241,523
Wake Forest U.	100	192,034	208,460	203,730	182,721	176,380	171,538	169,533	181,876	190,991	236,494	241,271
U. New Mexico	101	207,906	217,206	216,218	220,840	221,817	224,321	227,591	236,623	245,400	233,310	237,249
Wayne State U.	102	248,753	252,620	221,666	217,984	213,253	207,830	214,306	220,199	230,231	235,072	229,753
Woods Hole Oceanographic Institution	103	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573
Georgetown U.	104	155,538	164,301	171,829	170,503	162,983	157,308	162,734	187,948	192,160	210,896	225,504
Auburn U., Auburn	105	143,874	161,785	130,222	143,545	140,110	132,970	149,411	167,352	184,650	199,851	221,503
U. Delaware	106	147,204	160,503	161,327	170,470	169,641	167,904	169,384	176,455	179,560	200,935	214,517
Florida International U.	107	92,250	97,804	83,639	92,463	107,487	124,631	133,831	146,431	165,748	191,754	210,258
Tufts U.	108	153,113	154,760	159,140	154,694	156,411	162,510	181,011	216,895	197,478	196,559	209,283
U. Massachusetts, Amherst	109	164,850	176,545	178,207	172,217	183,210	197,183	193,863	194,030	193,495	203,885	204,998
U. Texas Health Science Center, San Antonio	110	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483	202,572
U. Nebraska, Medical Center	111	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455	202,406
U. Notre Dame	112	104,288	121,466	143,328	156,234	160,461	171,148	175,187	184,061	190,469	211,694	200,815
Kansas State U.	113	154,888	163,494	169,863	177,525	178,304	180,082	181,933	183,513	201,866	202,244	199,739
George Mason U.	114	77,966	80,284	79,913	82,849	85,493	89,845	92,649	98,488	125,416	164,053	198,923
Rice U.	115	97,288	109,197	115,235	128,621	136,419	141,935	151,855	163,312	157,352	177,126	192,213
Tulane U.	116	151,686	154,530	154,196	151,314	148,784	140,118	153,298	167,338	179,813	182,444	190,724
Northeastern U.	117	74,998	81,230	102,911	111,134	111,779	115,664	121,574	134,827	156,546	174,485	189,802
U. South Carolina, Columbia	118	218,771	196,820	186,559	178,800	181,363	181,742	183,478	180,127	145,739	136,433	187,909

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central Florida	119	108,662	97,309	102,562	108,560	143,063	169,770	166,000	168,630	176,094	185,873	187,788
U. Louisville	120	162,447	166,918	165,319	160,338	163,199	154,598	164,371	168,906	168,433	166,122	184,869
U. Texas Medical Branch	121	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595
West Virginia U.	122	146,944	159,206	161,961	159,865	156,946	160,560	164,501	175,403	176,082	178,575	180,349
U. Vermont	123	129,612	132,107	115,569	115,055	109,343	114,090	115,230	117,433	128,179	135,673	178,828
U. California, Riverside	124	121,541	125,902	129,609	126,916	128,506	136,493	147,268	159,305	162,054	172,146	177,921
U. Houston	125	106,646	98,231	105,844	112,469	122,163	125,973	142,081	149,795	158,543	168,909	174,582
U. Arkansas for Medical Sciences	126	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549
Clemson U.	127	144,562	135,681	110,493	116,138	116,871	120,858	133,342	144,728	160,361	165,227	174,342
Thomas Jefferson U.	128	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,354
U. Dayton	129	91,943	89,037	79,877	82,349	83,409	93,319	111,363	127,207	143,636	163,924	162,216
Oklahoma State U., Stillwater	130	147,094	162,786	166,523	134,500	126,543	126,607	150,167	152,605	154,418	150,021	153,586
U. Alaska, Fairbanks	131	127,808	126,691	121,640	118,907	152,352	139,605	141,976	150,064	138,989	142,307	150,364
North Dakota State U.	132	125,294	132,717	133,874	144,069	148,352	148,934	152,106	149,230	140,507	145,723	149,867
Montana State U., Bozeman	133	124,227	114,244	113,235	103,144	104,646	98,467	102,179	118,221	114,496	140,359	147,443
Texas Tech U.	134	106,220	114,648	105,147	114,506	125,126	128,554	132,766	144,898	139,500	147,317	147,162
U. California, Santa Cruz	135	136,964	149,702	149,824	145,092	147,536	147,518	146,237	119,990	123,221	138,455	146,771
U. New Hampshire	136	103,801	128,348	152,276	134,535	130,951	130,700	136,006	133,592	133,378	137,626	145,844
U. Nevada, Reno	137	94,420	86,372	83,137	85,085	81,028	83,385	90,673	99,156	127,049	136,707	144,327
U. Arkansas, Fayetteville	138	104,336	110,310	111,502	112,296	111,703	120,679	132,648	135,925	146,029	148,960	141,283
New Jersey Institute of Technology	139	81,240	89,250	91,407	97,088	94,371	96,386	95,235	101,334	124,565	136,801	140,053

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Wichita State U.	140	51,068	51,862	50,108	52,831	53,614	49,902	53,092	65,491	66,916	113,618	139,670
U. Louisiana, Lafayette	141	57,333	56,313	51,873	52,089	59,068	55,250	58,984	78,780	102,812	131,601	138,225
Drexel U.	142	115,458	109,729	112,390	118,754	124,464	122,366	120,789	132,507	148,107	140,907	134,792
Georgia State U.	143	61,971	54,221	62,188	79,235	80,955	i 79,813	103,731	133,242	133,302	126,225	126,387
U. Alabama, Huntsville	144	73,266	72,988	83,076	96,932	85,994	84,745	91,549	89,392	94,519	104,824	124,322
U. Maine	145	106,238	111,129	91,673	77,169	100,493	78,608	78,576	98,748	105,810	121,621	123,000
SUNY, U. Albany	146	356,517	146,987	135,673	135,879	129,434	110,284	105,605	140,392	151,303	161,613	120,484
U. Texas, Dallas	147	75,236	89,767	83,124	93,582	94,961	92,374	99,328	105,140	100,950	113,560	119,531
U. Mississippi	148	100,712	113,281	109,897	98,354	97,286	89,707	102,660	114,674	117,390	137,475	115,972
Cold Spring Harbor Laboratory	149	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,051
U. Idaho	150	85,475	94,345	95,327	93,941	92,512	95,459	99,354	105,475	105,578	107,351	109,184
U. Texas, Arlington	151	62,410	60,003	64,684	72,571	74,261	74,702	82,355	82,065	87,257	100,734	107,017
SUNY, Binghamton U.	152	66,512	65,816	73,098	67,892	63,960	70,367	75,332	88,735	105,017	93,446	105,920
New Mexico State U.	153	146,364	137,301	135,214	136,254	129,124	127,000	103,871	99,975	93,993	100,033	105,817
Augusta U.	154	na	na	na	64,033	64,116	67,736	71,338	99,637	99,043	96,396	103,886
U. Rhode Island	155	84,523	101,202	97,845	94,381	84,393	86,139	90,562	95,197	98,271	107,429	102,059
U. North Dakota	156	76,262	74,636	79,792	68,636	67,199	63,590	69,145	91,958	100,061	100,841	102,047
U. Montana, Missoula	157	62,814	59,617	58,735	59,809	54,808	60,282	69,994	84,109	86,096	96,246	101,504
Rensselaer Polytechnic Institute	158	83,601	84,346	92,348	92,365	104,844	102,122	93,907	96,533	94,221	99,326	100,220
U. Tennessee, Health Science Center	159	81,900	i 81,216	77,749	71,897	67,841	65,771	71,547	73,393	79,460	96,979	99,716
Rush U.	160	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438
U. Wyoming	161	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas, San Antonio	162	51,480	50,496	48,700	48,599	42,318	50,012	49,383	64,143	66,192	75,719	91,606
U. Oregon	163	83,545	87,161	87,656	78,654	77,655	65,226	68,631	72,517	83,132	82,231	88,598
U. Texas, El Paso	164	64,134	67,576	72,033	73,005	70,475	77,515	80,981	83,892	80,824	92,205	87,437
U. Massachusetts, Lowell	165	55,120	55,257	53,980	51,465	52,595	57,435	58,437	60,735	65,060	76,770	85,346
U. Maryland, Baltimore County	166	81,894	83,155	65,628	62,887	64,329	67,944	69,404	69,926	70,358	76,918	79,669
San Diego State U.	167	95,064	91,789	75,670	69,338	77,474	76,131	74,504	70,862	69,858	74,733	78,865
Syracuse U.	168	76,808	56,598	56,192	48,195	48,034	49,384	53,864	78,329	78,642	83,679	77,690
U. Nevada, Las Vegas	169	42,202	37,711	33,130	34,299	38,229	39,564	49,405	53,073	62,711	73,777	77,606
Colorado School of Mines	170	43,403	45,816	55,925	57,778	58,498	57,425	59,576	58,175	58,288	67,310	74,763
Michigan Technological U.	171	60,183	66,812	67,977	66,192	64,791	66,135	68,863	68,681	75,194	76,853	74,731
U. Alabama, Tuscaloosa	172	39,992	52,601	52,021	49,728	47,920	51,555	53,395	52,151	59,911	68,032	72,260
Cleveland State U.	173	33,857	55,044	60,481	67,137	61,291	56,683	i 70,665	77,518	77,203	73,854	72,092
Saint Louis U.	174	46,589	52,134	48,303	47,174	42,316	40,831	40,426	53,643	55,913	61,907	66,858
U. Southern Mississippi	175	41,480	45,207	54,151	44,912	45,127	41,432	47,195	49,769	49,785	65,249	64,496
Indiana U.-Purdue U., Indianapolis	176	290,490	314,004	308,101	325,562	316,650	51,479	52,050	51,783	54,270	58,150	62,791
Northern Arizona U.	177	27,281	28,581	27,078	30,134	30,903	34,731	38,800	45,572	52,105	57,763	62,548
U. California, Office of the President	178	72,542	63,420	65,627	67,447	50,103	48,233	39,051	46,399	55,676	67,702	60,686
South Dakota State U.	179	67,269	69,646	68,554	63,751	58,199	57,433	60,582	63,328	63,287	66,462	60,600

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Van Andel Research Institute	180	ne	ne	ne	ne	ne	40,502 i	40,040 i	44,578 i	55,171	61,738	58,982
Old Dominion U.	181	76,710	80,696	79,305	76,187	52,832	48,418	53,097	54,635	51,747	59,858	58,862
Naval Postgraduate School	182	96,067	95,153	124,531	89,616	91,400	74,293	54,558	52,404	52,551	60,522	58,276
U. North Texas, Denton	183	22,762	34,421	40,796	43,342	39,453	38,001	30,858	35,443	37,731	54,523	57,764
William & Mary	184	51,453	48,835	46,547	48,183	49,428	52,642	54,491	54,197	54,508	55,687	55,857
U. Wisconsin-Milwaukee	185	58,417	56,845	52,271	47,568	51,316	55,883	50,661	48,017	53,585	50,950	54,782
Brandeis U.	186	67,672	71,638	69,489	69,398	67,048 i	68,690 i	56,871	62,745 i	56,750	56,738	54,662
U. Memphis	187	40,589	39,315	41,841	39,306	44,351	37,539	40,374	41,192	50,819	47,225	54,193
U. Maryland Center for Environmental Science	188	42,670	50,007	48,224	53,683	50,814	49,341	52,861	54,491	53,398	55,121	53,676
U. Toledo	189	66,839	70,164	63,348	63,119	56,710	48,391	45,687	46,697	48,184	52,655	51,843
U. South Alabama	190	30,012	36,975	34,194	34,737	33,994	38,245	42,466	40,629	40,519	51,968	50,571
Florida Atlantic U.	191	41,896	47,027	46,782	22,594	21,760	19,718	25,158	42,918	44,634	46,399	50,002
Rochester Institute of Technology	192	33,537	29,709	31,893	32,199	31,471	36,030	39,952	45,563	43,679	49,949	49,572
Wright State U.	193	48,396	47,795	45,901	49,760	54,456	53,881	55,241	59,263	67,615	63,779	48,974
Mercer U.	194	26,862	28,998	31,352	28,876	30,162	32,771	31,653	29,366	34,098	44,037	48,955
U. Texas Rio Grande Valley	195	na	na	na	na	na	na	27,400	28,547	25,623	42,714	47,610
U. North Texas, Health Science Center	196	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124	47,392
East Carolina U.	197	23,370	25,727	29,468	36,425	29,169	26,248	25,251	25,551	36,066	47,612	47,123
Missouri U. of Science and Technology	198	37,259	36,325	33,797	35,400	38,509	35,144	35,531	37,958	42,657	47,521	46,813

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. North Carolina, Charlotte	199	28,216	24,323	22,504	21,744	20,646	21,836	23,610	24,190	34,870	42,697	45,181
CUNY, City C.	200	45,050	56,734	56,618	54,316	52,072	51,905	61,354	53,738	53,132	51,305	44,175
Howard U.	201	38,626	41,471	44,587	41,351	38,366	45,764	40,412	44,613	44,592	43,227	44,077
U. California, Merced	202	20,730	20,307	21,826	21,730	22,612	28,278	27,185	32,448	35,753	42,611	43,421
Louisiana State U., Health Sciences Center, New Orleans	203	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419
Boston C.	204	36,960 i	30,446	30,436	30,700	28,326	26,123	40,724	43,825	42,801	44,768	43,168
Texas Tech U., Health Sciences Center	205	51,282	58,774	61,219	61,309	36,932	39,261	38,717	38,657	36,784	42,959	43,102
Stevens Institute of Technology	206	32,230	39,973	29,893	26,788	28,917	33,042	34,413	34,018	31,565	35,477	42,640
Ohio U.	207	44,428	43,399	42,798	44,746	58,238 i	57,786 i	55,828 i	57,321 i	49,518 i	45,581	42,369
Worcester Polytechnic Institute	208	17,154	20,647	18,558	23,780	26,544	33,910	34,921	31,662	31,477	37,822	41,949
Southern Illinois U., Carbondale	209	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617
SUNY, Upstate Medical U.	210	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557
San Jose State U.	211	32,947	34,075	29,554	32,100	36,354	39,833	38,326	36,594	38,252	39,818	40,474
Texas State U.	212	19,496	19,243	24,285	26,671	25,910	29,934	30,064	28,479	29,444	35,440	39,242
Boise State U.	213	18,045	23,519	26,885	24,027	25,351	29,955	30,384	32,279	37,959	35,528	38,919
Loyola U., Chicago	214	42,120	40,994	44,785	50,150	48,996	47,000	41,152	38,070	37,049	37,210	38,210
American U.	215	16,809	18,212	18,404	23,794	38,038	25,350	28,170	26,551	31,906	39,531	37,505
U. Puerto Rico, Medical Sciences Campus	216	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014	37,217

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Massachusetts, Boston	217	39,387	31,864	28,869	29,875	30,021	30,305	35,220	37,929	33,865	38,998	36,827
Lehigh U.	218	34,897	29,639	28,949	31,003	32,860	33,693	30,375	33,752	35,849	35,414	36,427
Air Force Institute of Technology	219	28,318	30,090	30,609	26,234	23,335	26,323	29,722	35,703	33,360	34,016	35,584
U. Missouri, Kansas City	220	24,461	27,000	23,902	23,521	26,452	24,097	23,955	22,806	22,857	30,096	34,695
Florida A&M U.	221	30,282	33,719	31,375	33,538	29,895	31,676	32,856	33,024	34,437	36,605	34,194
CUNY, Hunter C.	222	35,751	35,645	36,085	36,741	35,702	33,483	33,508	26,496	29,752	32,773	33,951
Kent State U.	223	24,616	24,388	23,353	19,962	21,785	25,917	21,951	27,413	26,703	32,867	33,929
Brigham Young U., Provo	224	27,766	29,980	26,499	30,076	30,797	31,849	35,512	36,791	34,276	33,275	33,810
Portland State U.	225	40,203	41,692	40,939	38,785	39,134	36,355	38,717	36,595	36,526	38,726	33,654
U.S. Air Force Academy	226	54,509	70,285	43,512	49,471	41,539 i	35,157	50,659	40,635	33,467	34,940	33,308
SUNY, Downstate Medical Center	227	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204
North Carolina Agricultural and Technical State U.	228	35,216	34,725	33,963	33,251	34,160	34,514	31,782	35,285	34,714	33,297	31,382
Baylor U.	229	8,452	10,277	8,184	11,877	17,877	20,721	22,237	25,052	25,289	26,291	31,313
San Francisco State U.	230	24,959	25,772	29,447	31,948	28,710	26,178	25,149	26,712	27,841	29,667	30,779 i
Morehouse School of Medicine	231	30,669 i	33,946	37,586	36,638 i	41,858	33,367	38,774	35,454	33,215	31,289	29,813
Marquette U.	232	13,124	16,525	15,208	16,257	17,267	19,985	21,968	23,692	24,623	28,856	29,152
Illinois Institute of Technology	233	34,348	40,199	32,148	36,426	30,938	33,810	29,430	32,362	32,566	34,220	29,003
SUNY, C. of Environmental Science and Forestry	234	26,916	25,007 i	23,117 i	21,225 i	19,013 i	22,036	24,221	27,755	26,559	28,979	29,000

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Texas A&M U.-Corpus Christi	235	15,034	15,146	13,626	15,161	19,058	22,985	21,911	25,644	28,077	29,296	28,246
Southern Methodist U.	236	16,121	22,008	20,917	17,972	24,443	20,538	22,729	21,128	21,505	27,503	26,882
Desert Research Institute	237	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991	26,428
U. Puerto Rico, Mayaguez	238	25,536	33,509	31,143	28,041	25,920	26,986	24,908	25,328	23,764	26,092	25,896
U. Minnesota, Duluth	239	20,237	22,301	20,863	20,818	21,122	26,958	26,949	24,452	24,693	26,859	25,634
Nova Southeastern U.	240	9,740	11,912	12,599	12,415	13,532	14,439	18,991	22,021	22,406	24,277	25,476
U. Massachusetts, Dartmouth	241	24,312	23,708	21,556	25,559	25,879	23,875	24,363	24,336	24,536	26,554	25,326
Louisiana State U., Health Sciences Center, Shreveport	242	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321
Rowan U.	243	2,610	3,185	3,657	2,729	8,118	7,921	10,113	12,710	15,818	21,980	25,269
Loma Linda U.	244	32,915	37,169	29,762	29,799	23,120	25,417	22,956	21,846	22,922 i	24,408 i	25,077 i
U. South Dakota	245	27,511	25,321	27,060	30,364	27,367	21,671	22,543	24,830	27,168	28,456	24,766
New Mexico Institute of Mining and Technology	246	51,696	43,857	37,875	32,442 i	48,260	26,222	19,238	20,404	21,260	24,523	24,267
Catholic U. of America	247	20,871	24,933	24,275	22,795	22,009	23,817	24,360	23,337	24,269	23,402	24,099
California Polytechnic State U., San Luis Obispo	248	19,148	15,489	15,939	15,098	14,648	15,666	17,559	17,304	15,860	24,954	23,679
Albany Medical C.	249	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510
Delaware State U.	250	14,723	17,993	15,416	17,260	17,654	15,964	20,384	19,136	18,916	22,512	23,353 i

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Rutgers, State U. New Jersey, Newark	251	25,953		31,714		31,287		29,110		23,235		19,913		18,412		21,586		23,190		21,291		23,118	
U. Nebraska, central administration	252	ne		ne		ne		ne		ne		ne		ne		ne		12,713		17,697		22,814	
U. Denver	253	12,348		13,018		11,575		12,716		11,216		10,614		16,858		18,327		21,618		21,642		22,612	
U. Akron	254	47,558		52,881		59,765		62,331		64,270		54,089		57,351		39,566		31,789		29,090		22,595	
Teachers C., Columbia U.	255	15,149		17,459		19,829		18,538		19,457		22,359		22,868		23,189		23,261		24,234		22,170	
U. Alaska, Anchorage	256	11,328		12,380		13,004		13,022		15,112		15,396		18,382		18,646		19,254		20,655		22,123	
Miami U.	257	14,561		14,795		21,151		17,875	i	16,035		14,904		14,111		15,482		17,120		19,280		21,808	
California State U., Sacramento	258	11,673		13,822		12,056		12,444		11,783		16,585		17,705		17,647		18,017		20,279		21,425	
U. Texas Health Science Center, Tyler	259	ne		ne		ne		ne		ne		12,191		11,799		16,292		17,949	i	19,606	i	21,265	
Tuskegee U.	260	14,258		14,321		13,188		17,094		24,066	i	20,704	i	16,508	i	16,508	i	13,402		20,562		20,973	
Eastern Virginia Medical School	261	44,420		36,569		37,745		44,183		43,917		42,296		32,550		28,671		30,010		27,064		20,870	
Texas A&M U.-Kingsville	262	14,213		14,572		14,824		15,308		18,371		18,170		18,849		19,360		18,443		19,537		20,568	
Villanova U.	263	9,191	i	9,281	i	7,831	i	6,931	i	11,645		12,208		12,934		15,189		16,376		18,225		20,414	
Louisiana Tech U.	264	20,752		21,641		20,265		18,983		17,088		17,744		16,639		17,079		18,089		19,760		20,371	
New York Medical C.	265	28,400		27,316		23,277		20,243		17,908		17,653		17,311		15,637	i	8,141	i	19,398	i	20,137	
California State U., Northridge	266	16,747		9,795		15,619		9,466		12,628		12,053		12,471		15,336		17,036		18,758		19,405	
Marshall U.	267	24,398		26,268		18,998		19,607		20,154		19,835		18,777		16,423		18,043		17,823		19,020	
Creighton U.	268	25,432	i	28,907		29,911	i	27,709	i	24,073	i	22,228	i	21,843	i	22,310	i	18,896	i	22,278	i	18,899	i
U. Tulsa	269	22,690		18,703		19,895		21,186		26,460		24,135		21,347		20,567		19,797		18,180		18,487	
U. Puerto Rico, Rio Piedras	270	27,780		30,139		31,877		26,755		26,656		26,544		22,610		17,600		13,889		18,019		17,888	
Embry-Riddle Aeronautical U.	271	12,189		10,705		14,225		11,575		14,741		11,528		16,409		13,133		16,601		12,307		17,436	
Florida Institute of Technology	272	11,427		9,749		9,187		9,195		10,564	i	11,201		15,196		18,040		16,343		16,847		17,276	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Morgan State U.	273	12,768	12,544	17,470	14,942	15,337	13,406	15,353	14,527	12,727	12,791	16,919
Northern Illinois U.	274	23,353	17,672	18,147	18,866	15,165 i	13,660	16,515	12,565	18,965	18,337	16,675
Prairie View A&M U.	275	12,557	15,226	14,523	13,174	12,248	12,932	12,511	13,455	14,766	15,538	16,103
Central Michigan U.	276	3,229	5,865	8,190	9,996	11,506	9,725	10,304	11,521	13,406	15,607	16,050
California State U., Long Beach	277	14,762	14,006 i	13,250 i	12,494	9,746	8,108	14,175	16,993	18,408	17,459	15,900
Northeast Ohio Medical U.	278	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,218	18,007	15,756
CUNY, Queens C.	279	16,233	22,831	22,067	18,601	22,053	18,332	18,538	15,522	15,969	17,643	15,606
U. North Carolina, Greensboro	280	12,818	16,230	12,590	12,629	15,735	16,673	16,129	14,416	14,374	16,500	15,364
Western Michigan U. and Homer Stryker M.D. School of Medicine	281	14,432	15,875	13,546	12,821	13,500	13,375	11,974	17,687	15,913	15,160	15,350
U. North Carolina, Wilmington	282	20,618	19,961	17,015	15,490	12,212	13,166	13,597	14,000	15,058	16,039	15,005
Jackson State U.	283	38,114	39,867	38,027	32,119	24,132	22,163	22,408	21,272	18,972	18,057	14,979
Tennessee State U.	284	11,253	11,961	14,108	15,149	19,437	19,208	18,324	16,247	16,355	14,376	14,913
Rosalind Franklin U. of Medicine and Science	285	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126	14,601
Kennesaw State U.	286	1,401	1,374	1,738 i	2,100	1,881	1,316	6,279	7,728	8,006	20,195	14,555
South Dakota School of Mines and Technology	287	28,572	32,010	18,991	12,156	10,472	14,970	15,396	15,541	15,092	12,973	14,490

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Southern Illinois U., Edwardsville	288	30,958	33,318	25,608	24,594	17,215	18,248	17,243	15,559	16,914	15,513	14,260
Idaho State U.	289	19,234	21,047	20,764	21,476	19,962	17,540	20,305	18,398	17,659	14,560	14,232
Clarkson U.	290	18,289	17,772	14,787	12,009	13,642	13,194	12,799	14,180	15,780	16,211	14,095
Langston U.	291	4,492	5,206	5,326	4,932	8,512	8,126	10,941	10,592 i	10,459 i	10,326	13,954
Chapman U.	292	2,135	2,098	2,396	2,734	3,189	3,074	5,023	8,568	9,895	12,498	13,951
Humboldt State U.	293	7,505	9,520	9,464	7,999	8,242	11,173	16,084	15,914	14,983	14,891	13,899
Meharry Medical C.	294	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870
Duquesne U.	295	12,078	13,603	12,858	12,385	13,019	13,767	14,211	14,396	14,121	13,176	13,851
Alcorn State U.	296	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435	13,710
North Carolina Central U.	297	6,870	9,043	10,573	8,190	10,158	10,971	10,539	11,689	11,299	13,352	13,699
U. New Orleans	298	25,932	23,290	22,275	19,790	17,182	16,980	14,551	13,436	12,148	12,713	13,686
Charles R. Drew U. of Medicine and Science	299	22,152	22,150	20,580	18,250	20,686	14,128	13,360	15,652	11,490	13,739	13,682
U. of the Virgin Islands	300	31,272	21,373 i	24,543 i	18,374 i	14,732 i	19,456	21,215	12,031	11,853	11,668	13,622
East Tennessee State U.	301	9,185	9,496	10,657	8,506	6,954	6,173	7,680	9,146	13,694 i	13,903 i	13,618 i
Tennessee Technological U.	302	16,152	11,809	9,138	8,705	9,410	9,804	9,776	11,467	12,227	13,107	13,613
Texas Christian U.	303	3,815	3,841	5,105	5,342	5,132	5,095	4,053	4,330	3,279	4,291	13,590
U. Hawaii, system office	304	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568
Ponce Health Sciences U.	305	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566
Missouri State U.	306	7,737	5,576	4,340	3,879	3,677	3,516	3,027	3,104	4,391	5,669	13,020
Montana Technological U.	307	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Nebraska, Omaha	308	6,783	7,903	7,536	7,966	7,640	6,688	9,093	10,637	10,987	11,775	12,878
Oakland U.	309	11,796	14,725	15,439	14,033	12,515	15,015	14,083	12,757	11,961	17,226	12,851
U.S. Naval Academy	310	11,093	10,543	9,156	10,476	10,661	9,609	11,364	13,524	14,057	13,481	12,827
U. Missouri, Saint Louis	311	10,050	12,344	12,840	13,156	14,632	9,991	10,876	10,411	10,708	12,865	12,676
U. Guam	312	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674
Tarleton State U.	313	9,931	9,720	8,646	7,854	9,961	8,956	8,880	10,250	11,960	11,566	12,253
CUNY, Graduate School of Public Health and Health Policy	314	na	na	na	na	na	na	na	na	8,636	9,521	12,177
California State U., San Marcos	315	5,049	5,044 i	5,040 i	5,034	4,470 i	4,637	5,212	4,962	7,185	9,446	11,918
U.S. Military Academy	316	19,763 i	12,314	11,702	11,612	13,247	13,135	12,281	7,247	6,313	6,432	11,872
Bowling Green State U.	317	8,030	8,834	8,426	12,808	8,630	6,263	10,999	9,374	9,570	10,112	11,699
Xavier U. Louisiana	318	8,022	9,836	10,606	8,789	9,335	9,588	12,060	12,372	11,586	9,999	11,335
CUNY, Advanced Science Research Center	319	na	na	na	na	na	569	ne	3,293	5,462	8,300	11,226
Hampton U.	320	14,455	12,292	15,290	12,620	11,153	14,767	13,572	15,908	13,669	12,943	10,842
Montclair State U.	321	1,368	3,373	4,470	4,005	3,342	3,433	4,250	4,006	4,965	7,960	10,604
U. West Florida	322	4,079	3,551	2,559	4,004	5,080	5,180	12,310	12,461	15,710	12,175	10,496
Midwestern U.	323	3,596	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479
Western Washington U.	324	6,630	7,738	6,501	6,577	6,768	7,619	7,997	9,294	10,912	9,896	10,315
Texas Tech U., Health Sciences Center, El Paso	325	ne	ne	ne	ne	22,634	18,186	16,674	15,526	12,145	11,649	10,294

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
California State U., Los Angeles	326	7,178		8,682		6,876		7,192		4,881		4,461		4,860		8,031		9,487		12,083	i	10,188	
Long Island U.	327	630	i	672	i	671	i	676		ne		ne		611		1,602		1,731		4,858		10,148	
Georgia Southern U.	328	3,164		3,505		5,185		17,287		19,584		16,456		16,465		15,221		12,150		9,634		10,049	
Clark U.	329	5,237		6,032		7,041		5,481		5,644		6,357		6,404		7,408		7,650		9,426		9,795	
New School	330	3,167		3,277		3,695		5,919		3,843		5,254		15,747		11,123		8,112		9,179		9,255	
U. Tennessee, Chattanooga	331	8,786		7,308		8,865		5,928		4,627		5,318		3,962		4,814		5,834		7,337		9,060	
U. Arkansas, Little Rock	332	9,754		11,320		10,245		11,994		7,055		6,276		6,971		6,050		7,079		9,134		8,883	
Arkansas State U., Jonesboro	333	11,043		13,339		14,064		10,320		7,956		8,391		8,158		7,936		8,238		8,906		8,637	
U. Arkansas, Pine Bluff	334	8,343		9,415		9,073		8,909		8,198		8,425		8,873		8,136		8,314		9,005		8,527	
California State U., Fresno	335	8,117		8,296		8,283		7,117		7,303		7,248		7,431		7,228		8,414		8,241		8,347	
Oklahoma State U., Center for Health Sciences	336	4,398		2,815		2,122		2,137		1,805		1,625		1,924		2,374		2,497		5,339		8,342	
Clark Atlanta U.	337	8,515		8,205		10,405		9,156		9,172		9,929		8,482		7,948		7,810		8,508		8,259	
Alabama A&M U.	338	30,297		28,813	i	28,573	i	28,335	i	28,095	i	27,855	i	23,784	i	19,887	i	15,989	i	12,089	i	8,237	i
U. Michigan, Dearborn	339	6,377		7,025		5,720		6,419		7,744		7,179		7,050		7,664		7,411		8,092		8,141	
U. Maryland, Eastern Shore	340	8,692		8,664		7,265		8,786		8,982		9,631		8,175		7,403		4,941		7,128		8,092	
Kentucky State U.	341	4,887		4,559		6,843		5,580		5,694		6,017		7,060		8,151	i	9,125		8,432		7,963	
Virginia State U.	342	6,907		8,094		10,060		9,213		8,175		7,657		7,948		8,053		8,674		9,223		7,826	
Edward Via C. of Osteopathic Medicine	343	ne		2,453		2,576		4,992		2,633		2,237		5,692		8,119		7,601		7,225		7,475	
California State U., San Bernardino	344	2,630	i	7,266		7,472		10,872		12,572		14,342		9,725		10,319		11,535		12,419		7,415	
Illinois State U.	345	5,622		5,492		4,852		5,155		5,212		5,042		5,586		4,658		5,157		6,584		7,206	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
California State Polytechnic U., Pomona	346	4,040	4,737	4,599	6,702 i	5,349	4,513	5,254	5,732	7,538	5,323	7,151
Norfolk State U.	347	5,944	6,930	8,336	6,179	6,780	5,122	7,196	7,237	6,877	7,935	7,121
Western Kentucky U.	348	9,527	8,003	10,259	8,744	7,398	6,936	7,480	9,062	8,003	7,872	7,022
U. Hawaii, Hilo	349	11,567	5,927	14,841	11,607	9,242	14,431	11,216	6,976	7,048	6,818	6,957
U. New England	350	3,560	4,016	5,217	6,637	7,456	7,360	7,289	7,817	6,668	7,346	6,881
Ball State U.	351	4,780	9,159	4,701	3,616	4,364	4,810	5,689	5,215	6,412	7,025	6,771
Eastern Michigan U.	352	5,388	5,044	5,428	2,655	1,244	1,509	2,642	3,467	3,637	4,706	6,584
CUNY, Brooklyn C.	353	6,266	8,706	8,485	7,631	8,232	8,553	9,205	6,748	6,054	6,299 i	6,518
Grand Valley State U.	354	4,968	6,296 i	7,624 i	8,954	7,934	7,213	6,595	6,268	6,729	6,204	6,354
James Madison U.	355	6,858	7,075	8,428	5,539	4,516	3,700	3,283	3,108	3,859	4,968	6,169
Central State U.	356	3,060	3,694	3,490	2,769	2,025	1,508	1,643	2,008	3,615	3,766	6,107
Wesleyan U.	357	7,599	9,356	8,162	7,280	6,017	6,330	6,760	7,589	8,529	7,714	5,971
California State U., Bakersfield	358	2,083	3,130	1,115	2,380	2,254	2,857	2,725	3,751	4,633	6,612	5,902
Toyota Technological Institute, Chicago	359	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887
Lincoln U., Jefferson City	360	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581	5,777
West Virginia State U.	361	3,770	4,176	5,087	4,467	6,689	7,364	5,224	6,305	6,535	5,763	5,775
California State U., Monterey Bay	362	5,305	6,959	6,567	6,129	4,780	5,459	5,679	5,384	5,702	6,192	5,763
Sam Houston State U.	363	6,045	2,637	3,643	3,225	3,235	2,804	3,170	3,408	5,622	6,180	5,758
DePaul U.	364	4,302	5,256	5,344	4,828	5,681	8,506	8,590	7,590	6,325	5,241	5,754
California State U., East Bay	365	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	5,515
Bryn Mawr C.	366	4,482	4,807	6,247	5,429	5,329	6,369	6,136	6,270	5,708	4,971	5,508
U. North Florida	367	6,316	8,773	6,620	4,126	2,657	3,160	4,366	5,059	5,666	5,439	5,490

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
West Texas A&M U.	368	5,741	4,307	4,346	4,122	3,663	3,924	3,776	4,690	4,441	5,021	5,488
Fordham U.	369	5,212	4,494	5,624	6,704	7,086	6,352	9,477	8,429	7,336	6,623	5,472
California State U., Fullerton	370	11,147	14,330	11,094	10,230	7,104	5,318	5,029	4,890	5,724	6,017	5,457
Claremont McKenna C.	371	4,788	4,425	5,365 i	5,414 i	5,463 i	ne	6,054	5,818	5,299	5,923	5,403
St. Edward's U.	372	ne	3,299	2,480	2,640	1,745	4,200	3,720	7,161	2,813	5,813	5,377
U. Southern Maine	373	3,125	7,236	13,682	11,527	6,723 i	5,095 i	3,465	6,550	6,696	6,058	5,180
William Paterson U.	374	574	753	ne	ne	ne	ne	803	1,592	3,691	4,424	4,972
Wellesley C.	375	5,271	4,130	5,253	6,156	6,537	5,653	6,896	5,489	4,896	5,076	4,957
Fort Valley State U.	376	4,586	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,562	4,921
Western U. of Health Sciences	377	1,283	900	2,773	2,218	2,384	2,219	3,717	5,740	4,063	3,936	4,866
U. of Health Sciences and Pharmacy in St. Louis	378	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,835
Middle Tennessee State U.	379	3,370	2,825	5,491	3,384	1,522	1,965	3,971	4,092	3,735	4,474	4,780
U. Detroit Mercy	380	1,084	1,127	933	ne	1,305	1,872	3,649	2,737	4,577	5,170	4,756
U. Wisconsin-Stevens Point	381	6,674	6,063 i	5,452	4,300	3,876 i	3,404 i	2,933 i	3,377 i	3,822 i	4,266 i	4,713
Morehouse C.	382	7,704	8,280 i	8,856	9,169	6,973	5,836	4,199	3,663	4,365	4,427	4,686
U. Oklahoma, Tulsa	383	ne	ne	ne	ne	ne	2,554	3,107	2,667	3,868	4,003	4,591
CUNY, John Jay C. of Criminal Justice	384	4,354	4,125	5,001	3,799	3,726	3,515	3,252	3,738	5,893	2,986	4,557
Pacific U.	385	1,567	927	481	2,387	1,094 i	978	1,509	5,299	4,156	6,607	4,540
Loyola Marymount U.	386	1,364	3,938	2,369	2,285	3,610	3,286	4,168	4,075	4,120	4,322	4,489

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Southern U. and A&M C., Agricultural Research and Extension Center	387	ne		6,143		8,122		5,530		5,606		4,761		4,704		5,000	i	5,296		5,448		4,475	
Haverford C.	388	3,603	i	2,765	i	2,588	i	2,370	i	2,546	i	2,266	i	1,750	i	1,945	i	2,630	i	3,324	i	4,473	i
Salisbury U.	389	844		880		2,689		2,587		3,677		4,180		4,523		3,679		4,867		4,870		4,432	
Purdue U., Northwest	390	na		na		na		na		na		na		na		4,920		4,695		3,111		4,415	
Dakota State U.	391	ne		1,015		5,709		1,574		1,446		1,152		2,026		2,276		3,610		3,706		4,412	
Des Moines U.	392	855		924		ne		ne		929		ne		1,206		1,355		1,351		1,643		4,395	
U. Colorado Colorado Springs	393	8,805		6,935		3,996		3,688		4,312		5,962		5,679		5,611		4,730		3,440		4,385	
Roseman U. of Health Sciences	394	ne		840		ne		ne		3,021		3,287		3,433		4,167		3,973		4,176	i	4,380	
Winston-Salem State U.	395	ne		743		1,280		436		ne		ne		1,069		1,175		1,289		1,468		4,378	
Claremont Graduate U.	396	5,068		1,100		6,200		7,030		5,907	i	5,252	i	4,598	i	3,944	i	3,290	i	2,634		4,365	
U. Massachusetts, central office	397	ne		ne		485		131		339		517		1,690		2,894		3,308		3,437		4,272	
C. Charleston	398	11,422		6,446		7,217		8,078		7,121		7,327		6,955		6,740		5,450		5,206		4,142	
Appalachian State U.	399	2,550		3,498		4,196		2,877		3,977		3,507		2,868		4,318		3,387		3,060		4,141	
Smith C.	400	4,215		4,156		3,777		3,688		4,047		5,006		4,124		5,211		5,360		5,330		4,047	
Youngstown State U.	401	4,518		4,625		3,533		3,713		3,410		3,331		2,333		4,416		4,435		4,368		3,996	
Amherst C.	402	2,622		3,230		3,618	i	4,007		3,171		3,401		3,072		3,105		3,546		5,380		3,991	
Texas Southern U.	403	4,744		4,255		4,424		5,518		2,855		3,089		3,764		4,702		2,637		4,893		3,979	
U. of the District of Columbia	404	5,012		3,700		4,011		3,073		2,361		2,043		3,469		3,733		2,960		4,043		3,942	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. North Carolina, general administration	405	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,779	4,154	3,932
U. Central del Caribe	406	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931
Fisk U.	407	7,686	4,631	4,058	5,429 i	7,366	7,247 i	7,681	4,333	2,781	4,606	3,904
U. San Diego	408	2,567	2,340	2,485	2,552	2,873	2,332	2,566	3,543	3,491	3,742	3,900
Bucknell U.	409	5,169	4,618	3,623	3,867	4,143	3,790	4,005 i	4,321 i	4,639	4,061	3,857 i
Albany C. of Pharmacy and Health Sciences	410	3,074	3,496	2,639	2,637	3,200	2,520	1,789	2,561	2,730	3,381	3,765
U. of the Sciences Philadelphia	411	1,945	2,314	2,341	2,087	2,586	3,366	3,187	3,954	3,671	3,740	3,761
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	412	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737
U. New Haven	413	ne	595	456	728	511 i	518	2,535	985	5,577	5,045	3,736
California State U., Chico	414	2,710	2,288	2,430	2,833	2,284	1,676	2,152	1,474	2,298	2,562	3,671
Indiana U. Pennsylvania	415	767	967	958	337	414	ne	628	1,798	2,474	3,637	3,668
Reed C.	416	1,904	1,839	1,837	2,395	3,091	3,050	3,213	1,415	2,607	3,240	3,662
CUNY, Graduate Center	417	6,799	4,964	6,861	8,835	5,719	4,144	4,979 i	5,727	4,145	4,163	3,613
Azusa Pacific U.	418	ne	3,414 i	1,930 i	ne	ne	3,953	4,996	4,330	4,207	2,731	3,609
Williams C.	419	4,691	4,165	4,080	3,127	3,213	4,461	4,506	4,393	4,372	3,735	3,549 i
Touro U.	420	999	1,196	1,993	1,772	3,067	3,106	3,466	3,122	3,233	3,543	3,539
CUNY, C. Staten Island	421	3,137	2,162	3,151	2,477 i	2,089	1,907	2,780	2,988	3,644 i	3,517	3,534

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Southern Connecticut State U.	422	0		899	i	1,034	i	632	i	2,472	i	2,058	i	1,406		1,481		1,684		2,756		3,526	
SUNY, C. of Optometry	423	3,529		3,738		3,466		3,637		3,481		3,906		4,169		3,304		3,120		2,968		3,477	
New York Institute of Technology	424	1,785		1,934		2,056		3,214		4,916		3,507		3,846		3,094		3,663		5,705		3,473	
U. Baltimore	425	3,606		4,452		3,894		3,865		3,951		4,091		5,188		4,972		3,794		3,474		3,456	
Florida Gulf Coast U.	426	3,841		3,611		3,190		2,943		2,150		1,967		2,112		1,888		1,742		1,470		3,454	
Barnard C.	427	3,240		3,916		3,611		2,893		2,403		2,562		3,103		3,108		2,938		3,539		3,449	
CUNY, Lehman C.	428	2,932	i	3,168		2,982		2,242		2,543		2,613		3,847		4,114		4,657		2,594		3,429	
Philadelphia C. of Osteopathic Medicine	429	1,278		2,401		1,898		2,614		2,209		2,561		2,458		2,969		3,059		3,162		3,360	
Rutgers, State U. New Jersey, Camden	430	2,573		2,792		2,278		4,923		4,691		4,440		4,192		2,912		2,050		1,889		3,351	
Towson U.	431	3,002		3,570		2,529		2,795		2,265		2,200		1,945		2,593		3,033		3,245		3,259	
Texas Woman's U.	432	2,155		2,576		3,196		2,067		1,970		1,812		2,635		3,130		3,265		2,996		3,238	
Southern U. and A&M C., Baton Rouge	433	6,865		6,819	i	6,773		4,727		3,153		4,054		3,267		3,554		3,532		3,713		3,232	
California State U., Maritime Academy	434	ne		3,005	i	2,342		2,180		1,011		1,522		2,205		1,916		3,039		2,959		3,202	
Stockton U.	435	ne		1,226		609		ne		1,155		1,297		759		ne		2,560		2,630		3,198	
Milwaukee School of Engineering	436	3,944		4,347		4,599		4,351		4,410		4,524		3,930		3,374		3,232		4,026		3,190	
U. Washington, Tacoma	437	106		142		261		23		1		1,812		1,784		971		2,105		3,052		3,179	
Hope C.	438	3,552		3,605		3,320		3,367		2,719		2,932		2,811		3,213		3,011		2,694		3,157	
South Carolina State U.	439	7,166		8,157	i	9,149		6,674	i	7,838	i	9,002	i	12,077	i	13,254		14,021	i	3,010		3,123	i
Pace U.	440	2,413		2,709		3,306		2,914		3,570		3,436		2,946		2,847		2,148		2,384		3,077	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
MGH Institute of Health Professions	441	ne		587		ne		ne		ne		3,931		2,228		1,839		2,957		3,494		3,014	
Murray State U.	442	3,384		3,713		3,341		2,179		2,053		2,341		2,092		2,438		2,860		3,676		2,993	
Oregon Institute of Technology	443	ne		258		ne		ne		ne		788		4,027		3,537	i	3,145	i	3,357	i	2,968	i
U. North Carolina, Asheville	444	2,322		2,603		2,575		2,189		1,597		2,046		2,794		2,418		2,641		2,226		2,932	
St. John's U., New York	445	1,509		1,697		1,971		2,376		2,392		2,225		1,832		2,200		2,635		2,309		2,930	
Grinnell C.	446	1,797		1,072		2,001		2,603		2,336		2,091		2,055		3,174		3,798		3,655		2,921	
Gallaudet U.	447	4,975		4,404		4,305		4,468		3,457		3,543		4,014		7,060		7,046		3,255		2,904	
U. Northern Iowa	448	2,077		3,451		3,302		3,395		3,510		3,281		3,559		3,248		2,946		3,601		2,870	
West Chester U. Pennsylvania	449	4,634	i	7,785		1,914		969		1,294		2,294		3,138		3,302		3,247		3,787		2,862	
U. Illinois, Springfield	450	1,808		1,536		2,155		2,205		1,852		2,040		1,293		2,246		2,104		1,727		2,859	
Harvey Mudd C.	451	3,214		3,830		3,507		3,531		3,088		3,204		4,302		3,706		3,717		3,292		2,850	
Trinity U.	452	1,387		1,355		1,611		2,815		2,499		2,225		2,096		2,712		2,637		3,185		2,834	
Alfred U.	453	4,181		5,946		5,377		6,014		4,156		5,064		3,735		3,197		3,628		5,153		2,780	
Yeshiva U.	454	314,240		281,334		289,027		271,166		306,826		306,174		46,130		3,258		3,302		2,420		2,763	
Carleton C.	455	2,916		3,081		3,529		4,768		4,426		2,718		1,451		1,794		1,918		3,946		2,758	
Occidental C.	456	2,154		1,803		1,592		1,634		2,177		1,426		1,907		1,764		1,432		2,458		2,657	
Central Washington U.	457	5,132		2,854		2,752		2,087		1,998		2,182		2,751		3,755		3,050		3,205		2,620	
U. South Florida, Saint Petersburg	458	659		364		559		1,195		1,498		252		1,093		2,450		2,746		2,689		2,592	
National Defense U.	459	ne		ne		ne		4,906		6,712		4,832		5,720		5,723		2,219		2,155		2,583	
Alabama State U.	460	13,340		12,340		13,607		1,927		2,236		2,303		2,372		2,253		2,434		2,577		2,582	
Pomona C.	460	2,377		3,115		2,694		3,364		3,412		3,234		3,447		2,787		2,425		2,239		2,582	
U. Wisconsin-La Crosse	462	3,852		3,366	i	2,879		2,815		3,121		2,948		2,795		2,840		3,178		2,355		2,570	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Santa Clara U.	463	3,812	2,327	3,082	2,201	2,772	1,654	2,038	2,026	2,182	2,220	2,569
Bowdoin C.	464	2,532	2,633	4,277	4,025	2,950	2,873	3,079	2,200	2,506	2,677	2,554
Texas A&M U.-Commerce	465	2,147	1,316	1,550	1,758	1,606	1,972	1,409	2,250	2,558	2,428	2,544
Swarthmore C.	466	2,381	2,364	2,684	2,744	2,657	2,215	2,310	2,643	2,690	2,795	2,540
U. Nebraska, Kearney	467	1,441	2,137	948	1,234	1,275	1,216	1,588	3,011	2,091	2,636	2,524
U. South Carolina, Aiken	468	337 i	750	ne	1,309	1,133 i	1,154	1,445	2,961	2,582	2,145	2,489
Dillard U.	469	3,707	5,577 i	7,448	7,692	6,907	9,385	9,459	6,943	6,573	2,730	2,487
Stephen F. Austin State U.	470	7,536	4,664	3,370	2,877	3,207	3,920	2,968	2,801	2,599	3,241	2,456
Northern Kentucky U.	471	2,188	2,214	1,970	1,641	1,867	1,715	1,650	1,517	1,429	2,025	2,411
U. Northern Colorado	472	2,029	1,801	2,012	2,174	3,252	2,670	2,866	3,220	3,722	3,157	2,362
Western Carolina U.	473	2,353	1,419	1,768	1,011	1,048	1,145	1,305	1,431	1,430	2,518	2,352
U. Louisiana, Monroe	474	2,869	2,801	2,439	2,753	2,267	1,640	2,430	2,297	2,123	2,359	2,349
Lamar U.	475	5,316	4,685	3,570	2,564	2,439	2,218	1,824	3,359	3,316	3,196	2,339
Minnesota State U., Mankato	475	3,344	1,990	1,614	1,945	1,798	1,632	3,605	1,849	2,293	2,665	2,339
Framingham State U.	477	ne	ne	ne	ne	ne	ne	ne	1,875	131	ne	2,317
Skidmore C.	478	2,632	1,941	1,758	1,733	1,646	1,620	1,208	1,741	2,451	2,924	2,316
Saginaw Valley State U.	479	585	925	748	576	ne	838	804	978	1,584	2,750	2,301
Western Illinois U.	480	1,210	1,524	4,514	1,983	1,349	778	ne	1,904	2,414	2,307	2,297
U. Wisconsin-Superior	481	5,890	6,187 i	6,041 i	ne	3,022 i	ne	ne	ne	3,060	2,250	2,295
Christopher Newport U.	482	1,096	1,669	1,327	1,173	1,469	1,002	1,036	1,137	1,437	1,961	2,244
CUNY, Baruch C.	483	1,860	1,342	2,143	967	900	1,379	2,315	1,843	1,736	1,987	2,243
Bates C.	484	1,545	1,814	2,031	2,444	1,531	2,725	1,730	1,750	1,508	2,074	2,237

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Eastern Washington U.	485	3,171		3,780		2,538		2,027		1,820		2,973		3,276		1,964		2,506		1,971		2,221	
SUNY, Buffalo State	486	1,889		2,532		2,970		2,099		1,971		2,355		2,195		1,868		1,905		2,009		2,208	
Northwest Indian C.	487	2,271	i	2,557	i	2,590		2,760		2,503	i	1,575	i	ne		ne		1,649		2,201		2,181	i
Pittsburg State U.	488	1,759		1,687		1,479		1,536		2,458		2,205		2,162		2,255		2,253		2,513		2,173	
Colgate U.	489	2,559		2,109		3,004		2,340		2,226		2,244		2,631		2,728		3,142		3,128		2,163	
Spelman C.	490	2,740		1,833		1,874		1,366		1,185		1,035		1,291		1,227		1,673		2,004		2,136	
U. Central Arkansas	491	1,700		1,457		1,563		1,444		2,201		2,037		2,132		2,167		2,253		2,150		2,107	
Tougaloo C.	492	2,978		2,542		1,865		1,857		1,894		1,868		1,747		2,252		2,860		2,293		2,102	
Furman U.	493	2,202		2,023		1,889		1,994		1,513		1,748		1,864		2,029		2,015		1,628		2,079	
U. Richmond	494	3,243		3,051		3,302		2,602		2,921		2,484		2,559		2,532		2,301		2,311		2,073	
Sul Ross State U.	495	2,970		3,101		2,296		2,159		2,528		2,187		1,908		2,498		2,934		2,352		2,068	
U. of St. Thomas (MN)	496	1,003		1,037		751		1,019		647		ne		909		929		1,344		1,395		2,047	
U. Ana G. Mendez, Gurabo	497	1,054		410		615		566		2,319		1,780		1,747		1,640		1,388		3,823		2,025	
Keck Graduate Institute	498	ne		2,313		1,920		2,357		2,132		1,708		1,799	i	1,859	i	1,850	i	1,969	i	2,023	i
Hobart and William Smith Colleges	499	1,320		1,355		1,120		2,042		1,100		654		ne		923		ne		1,846		2,007	
Fayetteville State U.	500	2,188		2,378		1,771		2,050		2,499		2,092		3,040		2,502		2,501		2,224		1,985	
Austin Peay State U.	501	ne		1,603		1,358		1,413		868		863		556		955		1,191		1,169		1,974	
U. Puerto Rico, Cayey	501	713		1,067		1,817		1,726		1,795		1,521		1,415		1,109		1,359		1,870	i	1,974	
Colorado State U., Pueblo	503	413		364		ne		ne		ne		ne		ne		ne		ne		2,008		1,937	
Franklin and Marshall C.	504	3,444		3,140		2,543		2,855		2,123		3,045		2,447		2,876		2,911		3,092		1,919	
Claflin U.	505	3,241		5,202		5,255		2,574		1,618		1,204		1,748		1,354		1,505		1,736		1,910	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Lewis and Clark C.	506	1,427	1,504	1,222	2,948	3,118	2,480	2,063	1,905	1,407	1,370	1,907
Coastal Carolina U.	507	2,383	2,035	2,232	2,411	2,079	1,750	1,585	1,875	1,629	2,042	1,903
CUNY, New York City C. of Technology	508	133	284	ne	ne	ne	ne	ne	ne	2,358	2,576	1,902
Palmer C. of Chiropractic, Davenport	509	4,693	4,861	4,507	3,774	2,736 i	1,698	1,510	1,189	1,600	1,650	1,900
Mount Holyoke C.	510	2,305	2,810	2,838	2,716	3,335	3,565	3,297	3,635	2,601	2,689	1,895
U. Texas, Tyler	511	2,566	2,394	3,705	2,343	2,573	2,349	1,120	1,710	1,589	2,029	1,882
Morehead State U.	512	1,882	2,000	2,064	2,376	1,433	1,420	2,089	2,564	2,223	1,624	1,862
U. Wisconsin-Green Bay	513	1,128	984 i	991 i	998 i	1,003 i	1,010 i	1,446 i	1,364 i	1,353 i	1,936 i	1,849 i
Davidson C.	514	1,432	1,808	1,291	2,213	1,629	2,305	1,463	1,583	1,338	1,549	1,842
California State U., Dominguez Hills	515	2,743	2,780	2,894	3,088	1,384 i	1,035	1,460	1,105	1,582	1,563	1,810
Savannah State U.	516	1,874	2,700	1,996	2,613	2,210	1,801	2,261	1,405	1,793	1,720	1,804
Pennsylvania State U., Harrisburg	517	2,728	3,446	2,774	1,906	2,482	3,379	2,546	1,638	2,087	2,497	1,798
Hawaii Pacific U.	518	ne	592	1,016	983	1,524	1,221	2,351	2,155	2,094	1,960	1,796
Kettering U.	519	6,275	4,936	3,215	2,806	2,728	2,685	2,650	3,245	2,060	1,613	1,771
California State U., Stanislaus	520	ne	1,419 i	1,758	1,104	892	1,078	1,108	1,326	1,371	1,435	1,769
Saint Joseph's U.	521	1,957	1,840	1,704	937	569	650	911	1,316	1,255	1,688	1,748
Monmouth U.	522	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729
Middlebury C.	523	2,284	2,358	3,015	2,083	1,371	1,574	1,822	2,043	1,822	1,657	1,720
Mercyhurst U.	524	1,106	581	588	474	887	631	307	976 i	ne	1,673 i	1,719 i
Pennsylvania State U., Behrend	525	2,500	2,724	3,169	3,041	4,156	3,614	5,104	3,598	2,617	3,268	1,713

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
SUNY, C. Brockport	525	831		1,248		1,487		1,183		1,130		1,329		1,331		1,270		1,268		1,372		1,713	
Texas A&M International U.	525	1,596		1,336		1,225		1,349		1,450		925		1,617		2,974		3,729		4,034		1,713	
U. of the Pacific	528	4,429		3,241		3,753		3,479		1,877		1,488		2,289		1,592		2,228		2,387		1,690	
U. Wisconsin-Oshkosh	529	1,229		1,847		2,027		1,869	i	1,820	i	1,610	i	ne		1,460	i	1,544	i	1,628	i	1,688	i
CUNY, York C.	530	ne		2,134		1,153		826		ne		315		ne		ne		ne		1,574		1,648	
Connecticut C.	531	1,532		1,801		1,740		1,842		1,966		1,900		1,972		1,875		1,349		1,894		1,598	
Troy U.	532	ne		ne		ne		ne		ne		ne		ne		ne		ne		ne		1,589	
Macalester C.	533	3,080		3,343		1,518		1,241		1,256		1,096		1,389		1,754		1,218		1,582		1,565	
Southeastern Louisiana U.	534	2,172		1,638		1,733		1,642		1,408		1,984		1,550		1,606		1,304		1,140		1,564	
Vassar C.	535	1,236		1,552		993		1,136		999		2,118	i	1,417		1,579		4,185	i	1,009		1,553	
SUNY, Geneseo	536	1,174		2,239		1,989		1,082		957		1,162		1,594		1,626		1,813		1,958		1,528	
SUNY, Oswego	537	783		977		ne		724		ne		ne		ne		1,626		1,953		1,679		1,500	
CUNY, system office	538	ne		ne		819		435		652		828		820		444		2,940		1,713		1,470	
Sonoma State U.	539	858		787		ne		1,938		1,714		1,146		572		ne		ne		ne		1,459	
U. Puerto Rico, Humacao	540	1,968	i	1,976		1,949		1,452		1,102		748		ne		ne		1,168		1,195		1,456	
Calvin U.	541	3,720		2,045		2,370		3,408		2,627		1,772	i	1,331		1,306		1,793		1,521		1,444	i
Black Hills State U.	542	1,741		1,568		1,909		1,983		1,322		1,197		1,722		1,297		918		1,254		1,439	
Rhode Island C.	543	ne		2,316		1,569		1,167		907		1,396		1,259		960		776		809		1,438	
National U. of Natural Medicine	544	ne		791		ne		ne		ne		ne		ne		921		ne		1,245		1,428	
U. Central Oklahoma	545	1,786		1,537		998		1,058		1,207		1,619		1,214		1,054		1,228		1,429		1,422	i
SUNY, C. Plattsburgh	546	1,613		1,098		913		ne		1,008		1,087		1,020		1,003		1,604		1,649		1,419	
U. of the Incarnate Word	547	ne		302		ne		ne		ne		576		ne		ne		1,057		1,428		1,408	
California State U., Channel Islands	548	ne		363		ne		1,101		3,324		1,640		1,282		1,002		1,170		1,517		1,399	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Colby C.	549	1,515	1,528	1,709	1,571	1,475	1,573	1,639	1,643	1,948	1,641	1,390
C. New Jersey	550	809	420	ne	ne	ne	ne	ne	1,023	867	ne	1,389
Purdue U., Fort Wayne	551	4,832	5,206	4,563	5,080	4,348	4,013	3,930	3,317	3,401	1,220	1,380
Northeastern Illinois U.	552	376	388	ne	ne	613	ne	ne	805	1,877	2,078	1,378
Fort Lewis C.	553	360	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370
Bowie State U.	554	ne	1,910	1,739	1,422	1,761	1,497	1,507	987	1,100	876	1,368
Marshall B. Ketchum U.	555	ne	ne	ne	ne	1,030	1,468	1,491	1,512 i	1,451 i	1,430 i	1,357 i
Northwestern State U. Louisiana	556	1,407	1,185	1,085	997	792	ne	1,202	1,023	1,199	1,275	1,341
Trinity C., Hartford	557	1,292	1,449	1,675	1,369	1,654	1,217	1,217	2,496	1,423	1,579	1,309
West Virginia School of Osteopathic Medicine	558	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,303
Wheaton C., Wheaton	559	ne	769	658	ne	850	532	ne	739	1,156	2,063	1,298
Roger Williams U.	560	1,174	1,616	1,369	1,283	1,927	1,450	1,815	1,900	1,665	1,459	1,285
U. Wisconsin-Eau Claire	561	1,774	1,287	1,225	1,132	798	ne	1,170	1,557	1,136	1,468	1,275
U. Washington, Bothell	562	471	497	553	13	742	2,168	744	1,114	1,361	2,356	1,260
U. Alaska, Southeast	563	1,620	1,147	1,107	1,241	1,484	1,588	1,725	1,621	1,640	1,341	1,257
U. Hartford	564	1,137	2,414	1,736	1,448	1,305	1,350	1,478	1,572	460	1,528	1,239
Alaska Pacific U.	565	434	518	ne	ne	ne	976	1,009	835	1,325	1,627	1,234
Winthrop U.	566	ne	1,350	1,465	1,207	1,211	1,163	917	853	865	1,146	1,200
Lafayette C.	567	1,544	1,720	1,308	1,269	973	1,201	959	1,459	1,239	1,101	1,185
Liberty U.	568	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,429	1,167
Northern Michigan U.	569	423	405	ne	ne	ne	ne	627	653	963	1,047	1,163
U. San Francisco	570	1,546	1,734	3,405	2,233	2,208	1,848	1,718	1,009	1,169	1,195	1,157

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Pepperdine U.	571	239	1,134 i	1,455 i	1,107 i	1,298	1,725	1,820	897	691	1,025	1,153
New England C. of Optometry	572	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150
Oberlin C.	573	1,940	1,652	1,778	1,599	1,755	1,801	1,223	1,832	1,610	1,991	1,147
Biola U.	574	ne	ne	ne	ne	ne	ne	947 i	978 i	1,026 i	1,097 i	1,130 i
Ithaca C.	575	1,046	963	1,079	1,141	1,079	836	ne	ne	ne	ne	1,129
U. Houston-Clear Lake	576	831	1,273	1,253	1,175	1,013	853	1,067	1,146	1,227	1,113	1,128
Heidelberg U.	577	ne	1,219 i	ne	1,129	1,537	1,107	1,286	1,619	1,280	1,237	1,125
New Mexico Highlands U.	578	1,463	1,444	1,241	1,209	979	ne	1,111	1,023	952	ne	1,090
Johnson C. Smith U.	579	ne	ne	ne	ne	ne	ne	641	628	1,425	1,034	1,087
Kean U.	580	ne	550	1,191	473	ne	1,064	400	ne	ne	ne	1,076
Florida Polytechnic U.	581	na	na	na	na	na	212	ne	ne	ne	1,981	1,071
Indiana State U.	582	1,526	1,980	1,857	1,230	1,434	1,459	1,487	929	977	1,250	1,068
Manhattan C.	583	498	521	ne	ne	ne	ne	ne	ne	ne	969	1,064
Keene State C.	584	ne	1,029	814 i	597	1,048	966	ne	825	ne	1,061	1,063
Providence C.	585	895	758	ne	887	ne	1,311	1,151	997	1,186	1,016	1,060
Eastern Connecticut State U.	586	ne	96	ne	ne	574	606	464	770	588	871	1,057
St. Cloud State U.	587	2,326	1,992	1,489	1,418	1,511	2,148	1,576	1,676	1,694	1,435	1,040
Elizabeth City State U.	588	5,366	10,229	3,811	3,843	2,434	1,837	1,670	1,323	978	ne	1,010
Central Connecticut State U.	589	659	1,083	1,248	1,416	971	1,106	1,198	873	ne	966	989
Hofstra U.	590	1,151	1,095	1,546	955	1,354	2,039	1,916	1,455	1,347	1,253	977
Andrews U.	591	788	414	ne	ne	ne	ne	ne	ne	ne	1,048	970
Saint Michael's C.	592	623	703	ne	1,497	1,500	1,532	1,618	1,411	1,482	1,200	957
Fort Hays State U.	593	ne	ne	ne	ne	ne	ne	ne	ne	ne	877	952
Lipscomb U.	594	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	948 i

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
U. Texas of the Permian Basin	595	1,274		1,024		969		716		1,216		1,132		1,080		597		300		ne		939	
Eastern Kentucky U.	596	3,017		3,169		2,965		2,182		1,858		1,375		1,340		1,157		1,004		975		912	
Doane U.	597	ne		1,022		678		ne		1,026		474		ne		ne		952		887		911	i
Seattle U.	598	1,190	i	1,274		642		ne		1,500		1,975		1,610		1,177		1,368		1,128		908	
Kenyon C.	599	428		433		ne		ne		ne		ne		ne		ne		1,161		1,068		896	
Elon U.	600	ne		602	i	707	i	876	i	851		1,054		1,141		1,130		1,304		1,162		890	
Lawrence Technological U.	601	3,103		3,158		1,471		1,666		1,393		1,962		1,449		1,490		1,068		975		875	
St. Olaf C.	602	1,545		1,078		1,415		1,209		1,191		1,118		1,389		1,346		904		836		873	
Albion C.	603	ne		563		ne		ne		ne		ne		ne		807		738		753		866	
Whitman C.	604	1,407		1,142		849		ne		ne		ne		ne		ne		ne		1,039		865	
Grambling State U.	605	993		2,085		1,523		1,327		1,165		1,098		1,454		1,554		1,343		927		855	
Suffolk U.	606	ne		847		477		748		757		625		714	i	884	i	ne		ne		845	
U. Wisconsin-Platteville	607	681		715	i	ne		ne		899	i	726	i	ne		812	i	ne		829	i	843	i
Bradley U.	608	1,123		1,856		2,354		2,840		1,483		1,452		2,088		1,765		1,201		1,347		840	
Union C., Schenectady	609	1,957		1,527		1,378		2,312		1,807		1,431		2,031		1,042		1,297		1,454		837	
Colorado C.	610	543		751		701		398		896		1,423		1,003		1,346		1,294		1,053		828	
CUNY, Medgar Evers C.	611	618		1,929		1,555		1,134		1,063		937		ne		1,465		1,349		1,383		827	
C. Wooster	612	938		1,110		880		ne		1,135		1,135	i	ne		1,379		1,338		1,586		823	
U. Puget Sound	612	329		331		ne		ne		ne		ne		ne		884		ne		ne		823	
Gettysburg C.	614	664		541		ne		ne		ne		ne		ne		1,014		1,407		1,525		813	
Polytechnic U. Puerto Rico	614	ne		240		ne		ne		ne		ne		ne		ne		ne		1,884		813	
Midwestern State U.	616	328		ne		ne		ne		ne		ne		ne		ne		ne		ne		802	
Hamilton C.	617	1,431		1,476		1,136		1,660		1,178		627		897		1,036		880		841		785	
U. Michigan, Flint	618	189		328		ne		ne		ne		ne		ne		733		953		534		754	
Albany State U.	619	740		1,416		2,213		1,658		1,549		1,233		1,324		1,209		1,111		1,329		730	
Naval War C.	620	ne		ne		0	i	0	i	0	i	0		0		4,240	i	5,270		679		724	

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Wisconsin-River Falls	621	438	272 i	ne	ne	ne	ne	ne	688	623	ne	712
Citadel Military C. South Carolina	622	ne	305	ne	ne	ne	ne	ne	ne	ne	ne	693
Fairfield U.	623	2,233	2,720	2,640 i	2,557	2,897	2,400	2,705	3,535	1,534	704	684
U. Houston-Downtown	624	1,010	1,272	2,123	584	605	1,016	818	1,111	953	481	682
Willamette U.	625	1,161	1,161	1,825	1,484	1,183	1,643	1,054	1,345	1,543	895	665
Rhode Island School of Design	626	ne	377	ne	ne	ne	328	354 i	351 i	695 i	691 i	657 i
Benedict C.	627	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	647
U. Ana G. Mendez, Carolina	627	1,328	1,166	1,147	1,518	1,367	1,173	1,196	1,343	856	ne	647
Dickinson C.	629	1,432	1,308	1,133	836	756	760	711	695	ne	476	634
Stonehill C.	630	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	552
U. Minnesota, Morris	631	415	473	ne	477	799	676	624	504	ne	634	541
Seton Hall U.	632	3,030	5,560	679	691	688	736	825	850	724	810	539
U. South Florida, Sarasota-Manatee	633	105	86	ne	ne	290	274	318	432	438	518	538
Saint John's U., Collegeville	634	390	563	ne	763	907	745	909	738	568	560 i	531 i
California Lutheran U.	635	ne	666	ne	ne	ne	ne	ne	ne	ne	670	498
Franklin W. Olin C. of Engineering	636	ne	1,012	1,777	1,157	1,561	2,136	1,762	1,301	876	534	491
C. of Saint Benedict	637	ne	513	ne	738	769	662	854	660	520	512 i	487 i
Emerson C.	638	ne	ne	ne	ne	ne	455	358	769	1,703	786	485
U. of Mary Washington	639	ne	563 i	90	ne	ne	266	ne	ne	336	280	449
Weber State U.	640	809	1,191	837	ne	ne	ne	ne	ne	ne	ne	427

TABLE 78

Higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Salish Kootenai C.	641	382	658	1,019	1,042	1,399 i	1,186	732	781	963	766	394
Merrimack C.	642	ne	ne	ne	ne	ne	ne	ne	ne	687	ne	391
U. North Georgia	643	ne	ne	ne	ne	ne	ne	ne	331	544	551	363
Dine C.	644	ne	911 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
New Jersey City U.	645	145	ne	ne	ne	ne	ne	ne	1,600	3,255	1,165	234
St. Bonaventure U.	646	132	588	192	ne	ne	ne	188	ne	ne	ne	207
Niagara U.	647	655	783	1,476	1,053	611	458	380	532	645	571	202
Columbus State U.	648	ne	1,732	11	ne	ne	ne	ne	ne	ne	ne	182
La Sierra U.	649	ne	661	ne	ne	283	280	471	228	147	213	180
Mills C.	650	122	210	162	325	139	99	257	68	44	230	129
La Salle U.	651	594	539	287	324	461	495	426 i	ne	ne	ne	99
Jacksonville State U.	652	398	624	ne	ne	ne	197	457	363 i	380	167	58
All other surveyed institutions	-	1,366,975	1,757,641	1,721,930	1,661,904	997,643	1,012,190	1,004,309	1,038,852	1,071,777	82,909	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,909,094 thousand in total R&D expenditures in science and engineering fields in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Tied institutions are ranked alphabetically. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
All institutions	-	36,510,431	39,648,595	38,939,996	38,264,334	36,824,271	36,775,611	37,676,152	39,032,917	40,615,434	43,239,834	44,899,794
Johns Hopkins U.[a]	1	1,731,818	1,875,410	1,845,845	1,881,959	1,936,953	1,988,993	2,100,097	2,173,734	2,246,705	2,479,371	2,679,737
U. Washington, Seattle	2	809,433	921,399	876,941	869,623	849,713	851,573	893,050	912,856	955,518	958,103	987,195
U. Michigan, Ann Arbor	3	729,779	801,194	773,766	802,114	733,779	728,712	780,080	822,436	841,158	879,954	877,379
Georgia Institute of Technology	4	370,532	426,088	482,349	520,754	510,422	548,063	567,100	578,107	646,317	708,682	780,894
Columbia U. in the City of New York	5	561,531	634,973	631,961	619,557	591,523	577,833	585,578	632,994	673,792	724,232	743,915
U. California, San Diego	6	578,889	635,223	653,549	630,009	597,270	601,184	602,336	639,643	634,676	698,138	726,536
Stanford U.	7	576,553	633,287	607,578	625,144	608,342	645,633	668,578	684,928	685,871	713,688	725,942
Duke U.	8	513,469	584,161	585,636	580,416	556,847	558,566	574,738	622,174	644,179	708,544	706,023
U. Pennsylvania	9	626,816	689,571	656,425	623,939	606,115	597,791	638,336	653,405	671,796	702,747	705,791
U. North Carolina, Chapel Hill	10	541,910	592,541	597,629	614,627	601,933	577,574	624,131	657,879	681,581	701,623	685,851
U. Pittsburgh, Pittsburgh	11	581,148	647,060	620,070	601,358	565,409	554,658	575,281	612,754	643,129	671,380	682,715
U. California, San Francisco	12	514,693	570,116	559,329	566,117	544,697	535,457	602,705	606,768	669,470	671,047	676,331
U. Maryland[b]	13	na	na	na	na	na	na	na	na	na	678,126	669,023
U. California, Los Angeles	14	522,423	545,882	527,899	489,820	458,157	482,771	479,718	479,799	557,986	587,740	642,219
Pennsylvania State U., University Park and Hershey Medical Center	15	463,301	459,333	526,212	556,185	516,300	507,889	532,669	528,181	557,323	591,201	632,245
U. Wisconsin-Madison	16	522,473	568,389	557,688	533,220	522,251	506,910	548,247	552,983	555,666	594,094	617,902
Harvard U.	17	467,237	530,908	574,346	575,868	554,944	530,382	549,539	565,269	578,722	611,123	598,313
Yale U.	18	475,010	518,195	517,072	502,439	475,585	471,381	494,504	531,995	549,026	573,491	582,575
Cornell U.	19	446,705	476,163	471,024	444,303	438,834	445,266	427,940	435,355	464,468	522,035	558,346

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Southern California	20	402,372	443,458	433,136	423,708	421,887	408,105	396,197	436,515	488,081	530,971	549,528
Washington U., Saint Louis	21	466,993	460,282	432,434	402,702	410,115	424,723	436,229	468,637	496,648	531,885	545,027
Northwestern U.	22	356,193	393,449	385,377	389,757	385,888	385,868	424,638	438,732	464,689	497,740	527,958
Ohio State U.	23	384,633	471,331	416,304	425,547	416,177	406,941	418,887	427,154	439,594	465,081	505,626
U. Minnesota, Twin Cities	24	420,102	482,639	480,531	489,318	483,542	468,482	462,570	448,814	455,294	483,898	503,414
Texas A&M U., College Station and Health Science Center	25	276,977	281,063	259,506	302,356	298,489	291,714	281,015	294,602	316,771	342,390	501,396
Vanderbilt U. and Vanderbilt U. Medical Center	26	377,185	434,213	430,445	432,752	408,743	390,701	395,505	442,669	456,599	470,774	492,333
Massachusetts Institute of Technology	27	451,050	482,544	478,955	487,647	480,991	486,650	501,702	484,597	476,576	485,821	484,184
Icahn School of Medicine at Mount Sinai	28	302,770	296,835	271,722	277,517	300,667	329,641	342,104	367,522	398,656	443,745	480,452
U. Texas, Austin	29	331,439	334,240	328,560	352,788	313,955	331,388	340,181	377,389	386,954	387,551	478,458
Emory U.	30	336,948	369,945	360,934	364,136	329,254	346,534	360,197	381,151	392,971	423,515	451,487
New York U.	31	250,006	289,172	300,271	283,382	314,712	326,691	332,483	369,947	395,445	416,137	433,598
U. Colorado Boulder	32	282,008	313,531	319,019	309,072	302,877	341,828	360,827	359,462	376,870	397,709	412,476
U. Alabama, Birmingham	33	320,704	340,342	303,677	286,873	276,112	325,008	346,190	356,303	370,401	395,910	397,206
U. California, Davis	34	329,041	359,704	356,540	344,632	327,697	322,919	334,534	337,995	354,823	370,601	377,068
U. Illinois, Urbana-Champaign	35	294,236	312,796	348,536	459,791	336,172	330,479	320,703	344,657	339,732	369,006	376,505
U. Florida	36	269,765	296,950	295,745	285,778	279,920	281,317	297,267	314,187	340,725	369,001	375,577
Case Western Reserve U.	37	333,438	352,938	358,722	347,628	328,548	307,960	320,402	325,354	346,935	355,970	356,751

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Chicago	38	348,537	365,824	329,119	294,862	276,237	290,776	293,557	302,361	297,824	327,837	347,734
U. California, Berkeley	39	303,201	326,120	333,179	305,932	309,305	342,042	338,562	326,548	324,521	341,328	345,103
U. Colorado Denver and Anschutz Medical Campus	40	275,573	299,230	308,023	290,443	277,209	266,147	289,757	305,473	326,254	347,899	343,792
Indiana U., Bloomington	41	67,483	69,298	72,501	82,005	80,109	206,263	216,917	241,350	245,402	304,116	338,696
Boston U.	42	298,467	300,923	273,204	265,476	254,285	256,562	250,523	253,828	264,281	313,670	333,387
U. Arizona	43	307,038	324,751	328,369	334,680	286,595	265,878	259,443	269,201	287,852	323,060	325,621
Oregon Health and Science U.	44	247,054	268,777	242,219	244,867	246,050	243,876	230,608	243,495	264,492	298,227	321,572
Michigan State U.	45	198,735	222,937	250,416	246,131	247,970	256,228	294,369	329,533	315,674	317,653	317,885
Baylor C. of Medicine	46	284,072	295,529	268,753	285,230	264,641	256,895	267,849	292,806	300,098	309,354	315,101
California Institute of Technology	47	325,751	340,131	322,295	272,223	276,447	269,156	260,489	272,323	268,765	278,846	309,386
U. Utah	48	226,489	263,623	271,629	297,099	284,125	270,311	224,270	218,405	302,586	282,157	306,629
Rutgers, State U. New Jersey, New Brunswick	49	218,910	235,178	273,498	288,374	355,116	320,311	318,123	316,118	330,823	287,031	304,486
U. Rochester	50	321,258	337,312	307,390	298,781	265,686	261,023	265,430	267,040	283,973	305,325	295,154
U. Cincinnati	51	261,982	286,003	266,507	256,816	243,705	250,457	229,761	239,659	246,400	249,656	283,059
U. Virginia, Charlottesville	52	224,607	239,249	225,558	212,051	192,907	186,676	198,760	215,193	231,161	257,013	282,429
Colorado State U., Fort Collins	53	205,890	230,661	245,573	213,355	206,958	213,685	227,624	232,405	257,355	276,173	276,863
Arizona State U.	54	164,890	178,153	182,188	190,066	186,126	186,890	200,280	214,845	244,795	253,530	262,377
Purdue U., West Lafayette	55	221,679	246,116	255,691	258,596	227,857	209,005	214,373	224,965	230,208	231,188	257,641
U. Iowa	56	280,089	280,989	265,780	252,161	234,122	223,730	236,363	236,679	243,216	248,639	255,617
Scripps Research Institute	57	313,746	317,201	309,471	308,628	292,268	274,097	242,489	250,090	267,088	267,122	243,502

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas Southwestern Medical Center	58	232,027	231,639	207,513	198,114	185,137	183,787	185,263	200,085	197,910	203,544	242,679
Utah State U.	59	89,750	112,611	107,054	106,074	114,075	119,811	124,981	137,295	158,576	219,912	241,433
Uniformed Services U. of the Health Sciences	60	72,125	117,781	102,134	119,647	213,389	299,007	175,007	204,241	218,702	297,808	235,202
North Carolina State U.	61	137,124	152,790	171,464	174,440	177,722	196,058	197,261	213,544	214,440	224,471	227,964
U. California, Irvine	62	189,343	204,134	204,062	196,256	180,431	170,622	170,674	178,789	192,182	207,234	225,967
U. Miami	63	196,435	223,870	222,535	204,315	202,818	192,691	194,346	193,549	191,408	211,493	223,774
Carnegie Mellon U.	64	179,136	200,878	209,307	215,560	198,247	187,259	190,620	189,974	181,958	197,927	217,481
U. Illinois, Chicago	65	229,131	245,323	243,622	219,473	201,646	192,930	175,302	188,730	189,322	200,926	215,990
Virginia Polytechnic Institute and State U.	66	161,636	187,269	181,371	197,462	198,092	191,080	190,975	181,379	195,140	206,208	208,952
Albert Einstein C. of Medicine	67	na	na	na	na	na	na	188,521	188,259	196,457	202,513	204,635
Princeton U.	68	149,164	162,491	160,985	156,070	163,805	157,867	161,562	175,485	179,659	192,747	202,447
U. Kentucky	69	167,192	175,801	157,813	148,758	140,450	145,097	152,708	168,347	168,968	189,860	197,848
SUNY, U. Buffalo	70	164,477	176,923	186,747	200,212	185,144	174,146	180,095	184,313	183,124	178,458	195,829
U. Massachusetts, Medical School	71	178,293	208,244	202,149	189,159	183,582	183,588	181,446	200,232	194,953	197,388	192,938
Woods Hole Oceanographic Institution	72	153,066	165,819	161,115	158,672	177,616	172,995	166,010	148,491	163,003	184,995	191,186
U. Texas M. D. Anderson Cancer Center	73	206,664	236,400	196,753	182,971	158,986	161,171	155,044	166,552	173,206	176,156	186,488
Brown U.	74	120,749	123,649	127,665	120,977	125,005	127,886	131,751	141,864	161,384	175,849	183,180

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Oklahoma, Norman and Health Science Center	75	100,065	112,146	124,131	119,762	108,356	122,918	128,260	126,510	142,470	159,640	179,640
U. Georgia	76	117,225	134,200	133,525	127,487	122,145	127,825	138,374	153,279	144,926	156,628	167,347
Wake Forest U.	77	159,084	173,004	172,779	156,506	153,069	148,084	140,651	147,746	154,031	165,439	166,480
U. Hawaii, Manoa	78	196,275	201,700	193,722	225,263	202,574	199,818	189,683	181,750	166,398	167,432	163,091
Oregon State U.	79	135,081	146,069	155,667	148,174	143,815	150,625	156,437	157,708	166,354	162,781	161,646
Iowa State U.	80	108,181	116,109	117,144	120,934	115,285	113,443	124,242	125,607	145,241	145,541	161,153
U. Connecticut	81	128,700	141,252	150,402	146,400	139,594	135,349	143,955	141,977	139,022	153,496	160,763
U. New Mexico	82	147,003	161,950	159,302	155,684	151,082	151,619	153,100	159,583	167,315	156,865	158,882
George Washington U.	83	120,844	115,463	111,068	119,441	139,148	135,667	138,735	144,567	153,412	152,562	154,026
Medical U. South Carolina	84	131,650	143,464	136,907	127,472	118,649	117,255	124,212	134,072	142,639	153,226	153,802
U. Dayton	85	72,567	69,847	64,369	66,396	63,881	74,548	97,635	112,584	130,488	152,545	153,215
U. Kansas	86	137,458	143,300	147,052	147,557	131,186	128,374	117,549	126,109	130,036	141,679	151,987
Temple U.	87	76,170	85,021	85,062	124,764	118,892	119,945	134,132	143,636	141,505	150,201	146,564
SUNY, Stony Brook U.	88	120,090	124,938	123,198	118,432	111,386	115,031	118,296	125,150	134,802	143,258	145,526
Tufts U.	89	115,159	120,864	120,042	112,495	115,046	120,181	124,363	138,004	128,404	136,088	145,473
U. South Florida, Tampa	90	219,634	220,931	218,772	207,441	205,155	196,215	210,823	234,871	163,013	164,662	142,086
Florida State U.	91	127,571	136,332	131,998	132,583	140,995	133,569	118,294	118,359	129,435	131,472	141,229
Dartmouth C. and Dartmouth Hitchcock Medical Center	92	117,909	131,518	147,218	154,917	145,080	145,807	138,641	136,977	139,692	153,969	141,040
U. Delaware	93	102,637	112,523	110,760	114,048	111,933	109,258	108,378	113,031	113,582	128,651	139,682
U. Missouri, Columbia	94	113,362	113,072	110,446	108,305	102,784	102,852	116,337	122,821	126,164	128,293	137,029
U. Tennessee, Knoxville[c]	95	83,491 i	99,712	103,147	104,558	106,778	101,608	106,930	115,320	116,028	121,549	136,741
Virginia Commonwealth U.	96	125,713	134,431	124,836	119,293	119,507	123,665	124,962	127,341	122,771	125,393	135,266

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Washington State U.	97	105,333	115,775	120,146	119,921	112,568	121,627	122,275	133,308	131,229	137,424	135,023
U. Texas Health Science Center, Houston	98	150,324	156,790	146,424	144,235	136,145	125,890	121,098	124,461	128,232	132,647	133,624
Northeastern U.	99	56,727	65,757	75,733	82,587	77,401	78,379	78,668	90,190	109,443	122,663	131,752
Medical C. Wisconsin	100	121,750	133,929	125,325	116,765	111,241	109,542	108,529	108,276	111,273	119,036	128,783
U. California, Santa Barbara	101	127,696	132,490	134,984	131,392	119,816	114,596	114,884	113,173	110,065	115,569	121,120
Mississippi State U.	102	105,224	97,987	96,132	73,834	70,615	79,181	86,570	87,435	88,365	103,546	119,093
U. Texas Medical Branch	103	128,840	128,098	109,867	108,287	101,761	98,050	100,464	104,458	104,356	107,806	114,103
U. Massachusetts, Amherst	104	97,131	106,315	106,470	103,233	102,682	97,206	97,576	101,992	103,555	110,063	112,546
Wayne State U.	105	131,418	133,925	125,965	118,217	112,608	108,221	109,460	106,865	107,791	114,349	108,536
Tulane U.	106	106,021	110,222	101,130	97,873	94,287	84,143	89,028	93,747	102,090	104,187	107,216
U. Nebraska, Medical Center	107	80,784	86,295	84,196	80,750	76,195	71,918	76,221	84,814	93,463	102,604	105,158
U. Nebraska, Lincoln	108	97,538	106,575	105,440	98,534	93,190	94,763	93,532	99,956	102,078	108,207	104,794
U. Alabama, Huntsville	109	71,461	70,197	75,715	83,396	73,913	66,564	68,882	68,259	74,315	84,689	103,599
U. Texas Health Science Center, San Antonio	110	121,723	121,200	106,177	99,198	89,303	85,940	89,742	85,455	86,956	96,502	102,959
U. Notre Dame	111	61,645	79,003	82,244	79,268	79,192	82,615	85,870	90,038	92,144	102,335	99,743
U. Alaska, Fairbanks	112	97,889	103,677	97,472	92,602	83,483	78,985	87,829	95,467	93,562	91,405	99,572
George Mason U.	113	59,591	61,016	57,504	57,154	53,775	54,113	50,687	52,432	64,315	91,377	99,332
Georgetown U.	114	119,509	122,802	113,229	113,703	99,567	87,268	82,819	93,224	88,778	93,004	98,138
U. Central Florida	115	67,795	66,736	72,620	68,691	64,323	81,788	80,365	82,777	89,504	90,851	97,826
Florida International U.	116	52,784	61,687	54,204	57,858	68,946	67,293	68,539	66,351	80,417	90,067	97,758
U. Vermont	117	98,588	101,465	87,843	85,028	79,727	83,733	83,124	78,383	86,936	90,378	97,676

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. New Hampshire	118	76,191	96,552	109,728	92,778	89,640	83,106	89,457	85,714	87,854	84,599	94,554
U. South Carolina, Columbia	119	119,890	100,045	93,237	87,562	87,844	84,723	88,231	89,565	80,948	88,052	90,313
U. California, Riverside	120	58,159	59,351	61,304	57,032	56,327	62,642	69,924	75,920	75,990	79,666	90,235
Louisiana State U., Baton Rouge	121	94,611	96,050	91,238	93,281	93,584	82,276	84,954	80,044	83,453	87,498	86,975
Rice U.	122	69,176	78,249	76,431	79,742	73,782	73,817	82,643	83,894	77,607	83,105	86,675
Rockefeller U.	123	88,705	97,710	84,616	80,384	81,820	81,949	80,667	86,763	87,231	84,566	86,280
Montana State U., Bozeman	124	84,735	78,431	78,409	66,451	66,770	62,827	61,490	66,449	67,705	80,955	84,960
U. Louisville	125	83,593	84,557	79,252	72,047	63,258	66,368	69,781	69,722	77,281	83,421	83,626
New Jersey Institute of Technology	126	47,832	52,873	57,513	55,017	51,853	50,554	63,322	64,840	78,313	87,588	82,331
U. Mississippi	127	69,031	72,456	72,855	62,816	63,070	58,797	63,372	61,232	62,721	72,731	80,923
Drexel U.	128	75,339	81,424	85,584	74,047	75,557	67,226	65,193	69,326	80,074	81,957	77,965
West Virginia U.	129	74,465	84,061	77,981	72,677	67,450	66,608	70,313	70,256	73,518	79,320	77,455
Kansas State U.	130	66,400	74,414	73,247	67,524	64,565	66,632	67,863	72,321	77,730	78,878	76,164
U. California, Santa Cruz	131	81,598	95,015	91,409	88,600	89,206	91,249	93,651	65,133	62,218	73,635	75,813
Thomas Jefferson U.	132	77,817	80,027	68,976	56,247	54,676	58,536	58,866	62,029	64,869	74,816	74,653
Clemson U.	133	59,374	49,365	48,182	47,825	44,673	45,292	52,184	62,920	66,618	72,335	74,438
Auburn U., Auburn	134	53,648	59,061	55,118	56,809	49,739	47,939	54,258	54,693	57,718	63,660	72,844
U. Arkansas for Medical Sciences	135	72,217	75,924	69,883	64,856	55,556	50,603	48,999	51,298	57,523	63,498	70,508
U. Houston	136	50,148	57,090	54,657	57,569	55,574	54,516	58,085	57,263	62,134	66,848	68,987
U. Oregon	137	66,809	71,344	71,157	61,856	62,824	56,448	55,137	57,092	56,403	63,912	66,182
SUNY, U. Albany	138	123,404	124,848	112,161	113,736	104,861	78,824	74,092	82,551	84,561	91,225	66,162
U. Rhode Island	139	60,963	77,668	78,194	70,900	61,836	61,085	58,438	59,623	61,135	69,913	65,860
Rush U.	140	51,304	57,978	57,512	57,063	53,501	52,193	50,332	51,532	64,178	68,941	65,343

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Nevada, Reno	141	58,115	55,374	55,150	53,898	50,904	49,977	51,630	53,438	59,879	60,967	63,827
Georgia State U.	142	23,732	21,980	27,251	28,216	29,470	36,843	40,897	54,842	55,241	54,882	62,835
Cold Spring Harbor Laboratory	143	ne	51,529	43,874	41,002	41,845	49,063	50,478	54,260	67,139	73,854	62,068
New Mexico State U.	144	98,050	90,283	90,338	86,546	80,247	78,253	61,494	59,087	53,417	57,183	60,056
U. Montana, Missoula	145	40,116	38,176	35,590	33,825	30,164	33,617	38,726	44,465	51,975	52,919	58,745
U. Maryland, Baltimore County	146	58,597	61,110	44,669	44,257	46,993	47,591	50,645	52,008	52,934	54,740	58,178
U. Wyoming	147	44,026	47,782	55,663	52,296	39,778	47,232	63,223	56,178	42,538	51,657	56,078
Augusta U.	148	na	na	na	47,913	47,771	50,585	50,294	48,921	48,800	47,031	55,797
U. Texas, Dallas	149	30,019	32,355	34,088	31,903	32,096	30,776	34,532	35,244	39,010	47,443	55,225
Colorado School of Mines	150	28,416	31,414	31,399	31,585	33,908	33,578	34,708	36,650	39,311	48,593	53,875
Cleveland State U.	151	24,894	42,292	46,205	50,002	44,139	41,721	49,659	52,317	54,987	50,982	53,234
U. Maine	152	48,270	59,644	39,428	33,903	50,338	35,033	34,125	37,189	45,206	49,832	52,755
Wichita State U.	153	13,633	15,425	14,267	10,161	8,100	6,397	7,947	19,507	16,522	26,633	50,042
U. Idaho	154	45,082	52,812	53,765	52,430	49,423	49,591	50,083	48,879	47,475	48,462	49,818
Naval Postgraduate School	155	86,765	88,950	120,209	86,538	89,284	71,987	50,560	42,246	41,151	49,168	48,709
U. Tennessee, Health Science Center	156	52,650 i	51,840	48,473	42,269	41,830	39,356	38,374	39,138	39,421	42,396	48,264
Rensselaer Polytechnic Institute	157	54,559	58,951	62,063	60,765	58,940	59,417	48,887	47,749	46,385	47,245	47,934
U. Arkansas, Fayetteville	158	32,659	37,203	34,123	30,562	26,014	33,486	39,527	42,198	48,288	46,871	45,196
U. Texas, Arlington	159	29,671	28,190	30,473	28,588	24,079	26,858	24,853	30,588	34,063	39,198	42,157

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. North Dakota	160	52,381	53,913	54,411	46,397	40,191	37,457	42,253	40,845	48,858	47,235	42,021
U. Southern Mississippi	161	36,729	40,764	34,487	28,324	25,956	24,710	23,952	26,104	30,331	45,687	41,791
Brandeis U.	162	43,282	47,793	44,061	43,963	45,800	46,764	47,708	44,819	37,371	40,333	40,815
U. Massachusetts, Lowell	163	24,475	26,802	25,670	25,441	25,874	28,998	26,499	28,078	28,982	33,948	40,037
San Diego State U.	164	53,746	59,769	51,690	45,175	44,807	43,526	42,062	37,226	37,873	37,595	39,049
Northern Arizona U.	165	14,990	17,687	15,946	15,533	18,044	20,111	22,997	25,615	29,137	35,156	38,492
Oklahoma State U., Stillwater	166	56,998	81,855	85,876	44,200	36,687	38,498	41,186	42,331	40,052	38,757	38,419
U. Texas, El Paso	167	34,439	34,765	39,274	37,741	34,528	40,334	41,384	43,759	43,214	40,111	37,495
U. Alabama, Tuscaloosa	168	25,945	32,387	32,515	27,963	25,477	28,029	27,019	24,344	27,660	33,233	37,198
Michigan Technological U.	169	27,407	32,508	32,835	31,734	30,214	28,581	29,609	28,332	32,366	34,488	35,912
Wright State U.	170	24,785	27,422	25,519	26,496	27,523	26,814	30,093	35,514	43,359	41,362	35,267
Saint Louis U.	171	33,655	38,206	35,841	31,230	29,396	27,343	26,323	27,005	27,694	33,941	34,163
U.S. Air Force Academy	172	43,803	60,292	36,316	42,303	32,284	29,417	44,567	34,664	27,650	34,940	33,308
U. Texas, San Antonio	173	27,036	28,011	29,168	28,066	22,518	23,108	24,493	28,650	28,943	32,986	32,512
Stevens Institute of Technology	174	26,366	31,269	25,794	23,004	22,130	25,054	28,090	26,438	25,521	27,703	32,141
San Jose State U.	175	21,576	23,207	21,830	24,574	28,475	31,250	30,021	30,063	31,592	33,072	32,061
Mercer U.	176	18,778	17,904	19,963	19,411	19,666	21,563	21,120	19,772	18,999	27,035	31,572
Louisiana State U., Health Sciences Center, New Orleans	177	46,142	45,581	40,637	36,886	34,637	36,027	31,526	28,018	26,988	31,290	31,381

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
North Dakota State U.	178	51,198	52,543	45,326	37,128	35,308	35,037	34,792	34,134	34,485	34,693	31,109
Indiana U.-Purdue U., Indianapolis	179	147,375	154,966	165,374	151,962	142,589	18,090	19,507	19,630	22,071	25,672	30,102
CUNY, City C.	180	32,170	39,064	39,063	39,756	39,860	37,900	37,359	34,718	36,402	32,975	30,038
Florida A&M U.	181	26,311	30,771	27,951	28,446	25,313	26,700	28,021	27,899	29,861	32,117	30,022
Texas Tech U.	182	32,680	32,881	27,698	25,153	26,161	25,458	24,586	23,426	24,503	29,857	29,685
Howard U.	183	32,211	35,632	37,336	33,403	32,052	38,051	32,967	33,893	32,573	29,422	28,785
U. Nevada, Las Vegas	184	31,497	29,642	24,567	23,980	26,585	26,970	24,683	28,460	32,711	27,172	28,187
SUNY, Polytechnic Institute	185	na	na	na	na	21,208	14,641	21,380	41,247	41,753	38,222	27,993
Syracuse U.	186	26,971	25,272	25,327	22,564	24,163	26,769	28,793	31,902	33,045	32,143	27,538
U. Toledo	187	36,984	42,680	38,563	37,539	31,648	26,428	24,860	22,371	25,056	27,802	27,412
U. Puerto Rico, Medical Sciences Campus	188	29,813	54,381	35,173	31,037	30,197	31,889	33,348	29,869	30,597	34,570	27,033
Old Dominion U.	189	30,534	34,084	31,877	30,478	30,568	27,857	27,556	32,898	28,792	27,633	26,904
SUNY, Downstate Medical Center	190	25,023	33,964	34,884	31,972	25,802	20,779	25,941	22,496	26,302	26,914	26,454
U. North Carolina, Charlotte	191	15,444	14,358	16,997	18,257	16,637	17,028	18,733	19,436	21,366	24,917	26,335
U. Louisiana, Lafayette	192	12,060	11,879	12,435	10,007	9,050	10,315	9,479	14,953	20,766	30,341	25,919
U. North Texas, Health Science Center	193	25,847	26,132	26,627	24,187	21,943	22,422	27,163	26,368	27,579	27,260	25,917
Lehigh U.	194	22,084	20,485	20,419	20,878	20,677	20,680	19,512	22,640	23,649	24,282	25,574
William & Mary	195	22,478	23,502	25,349	24,619	27,232	27,722	28,771	28,062	27,836	27,112	25,460
Worcester Polytechnic Institute	196	12,705	14,773	12,161	16,275	18,310	25,743	24,854	18,559	18,084	22,144	25,320
Boston C.	197	31,351	23,845	23,685	22,780	19,462	17,409	23,184	26,937	27,674	28,017	25,213

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Boise State U.	198	14,237	18,423	19,446	15,181	15,183	17,562	16,112	18,754	23,157	22,354	25,121
Portland State U.	199	25,853	29,660	30,090	27,899	26,147	23,389	25,310	23,645	23,437	26,301	24,752
U. Wisconsin-Milwaukee	200	23,641	28,336	26,424	23,872	23,726	24,222	22,519	21,673	24,348	22,909	24,713
Illinois Institute of Technology	201	27,780	33,016	27,515	28,255	25,506	25,479	23,542	26,191	27,742	28,753	24,152
Rochester Institute of Technology	202	19,493	18,546	17,435	16,186	16,765	17,479	22,545	23,913	22,692	22,195	24,079
SUNY, Binghamton U.	203	20,766	20,443	20,151	16,749	14,757	16,038	18,363	20,601	22,964	23,626	24,027
SUNY, Upstate Medical U.	204	27,959	28,663	27,013	23,730	21,334	19,213	18,942	19,991	20,391	22,028	23,940
CUNY, Hunter C.	205	17,543	21,191	22,078	21,465	18,825	19,018	19,597	18,179	20,053	21,188	23,638
Loyola U., Chicago	206	27,953	27,588	27,786	32,008	29,989	27,380	24,916	22,861	21,131	22,919	23,277
Air Force Institute of Technology	207	13,514	18,986	17,919	17,614	16,342	16,369	19,660	25,558	23,393	21,856	22,854
Missouri U. of Science and Technology	208	28,239	27,961	23,731	25,551	21,474	17,306	18,811	19,534	21,793	22,337	22,853
Brigham Young U., Provo	209	18,373	19,741	17,381	19,931	20,214	20,769	24,791	23,631	21,367	21,977	22,789
Florida Atlantic U.	210	16,457	14,793	14,926	12,480	12,317	10,402	14,443	16,430	18,076	21,050	22,787
New Mexico Institute of Mining and Technology	211	42,243	37,316	29,894	23,581	33,168	19,975	16,657	18,271	19,437	22,771	22,598
Morehouse School of Medicine	212	25,855 i	28,128	31,786	34,511 i	33,020	30,012	28,678	28,792	24,326	22,461	22,500
South Dakota State U.	213	38,309	41,876	41,941	33,226	29,454	28,488	29,605	27,940	27,013	29,530	22,387
U. Nebraska, central administration	214	ne	ne	ne	ne	ne	ne	ne	ne	12,561	17,360	22,246

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Catholic U. of America	215	15,837	19,651	17,350	17,154	17,061	19,548	19,451	19,364	20,423	21,408	22,244
U. Missouri, Kansas City	216	16,139	18,748	17,219	15,406	14,613	12,810	12,739	11,145	10,396	18,400	21,921
U. South Alabama	217	14,343	16,259	13,294	13,361	13,478	15,025	17,131	15,856	14,572	19,383	21,359
U. California, Merced	218	9,192	9,744	10,741	10,733	10,506	12,607	12,166	14,660	14,041	16,513	19,505
North Carolina Agricultural and Technical State U.	219	23,878	22,499	21,468	20,956	22,609	21,802	19,808	23,046	22,212	20,924	19,170
Van Andel Research Institute	220	ne	ne	ne	ne	ne	8,138 i	11,970	13,108	14,285	18,259	18,538
Loma Linda U.	221	27,175	30,899	23,447	24,991	19,044	21,082	16,118	15,192	15,790 i	16,909 i	17,457 i
East Carolina U.	222	15,587	17,636	16,946	17,789	16,992	14,926	13,057	11,386	11,654	15,544	16,583
California State U., Northridge	223	11,122	8,729	13,965	7,778	11,007	10,889	10,136	12,952	13,822	15,543	16,478
U. Memphis	224	17,726	16,738	19,113	15,747	18,344	16,250	16,784	16,958	23,463	17,074	15,927
U. Puerto Rico, Mayaguez	225	12,505	18,269	19,536	13,830	13,638	15,313	14,403	13,585	14,092	15,653	15,842
Desert Research Institute	226	28,307	28,489	27,294	22,814	19,932	16,511	18,883	18,839	17,911	16,745	15,791
San Francisco State U.	227	15,407	17,337	17,075	18,638	16,753	14,336	12,277	13,782	13,346	15,149	15,783 i
Eastern Virginia Medical School	228	29,291	25,319	24,694	28,728	28,532	28,637	21,459	21,209	21,356	19,408	15,748
Southern Methodist U.	229	12,142	17,819	15,839	13,516	18,427	11,806	12,910	11,978	11,568	15,219	15,559
Ohio U.	230	18,209	21,938	20,340	20,134	16,425	17,140	14,421	16,017	13,512	14,453	15,466
Rowan U.	231	1,737	2,071	2,295	1,875	4,588	4,665	5,239	7,110	9,568	11,909	15,276
U. Alaska, Anchorage	232	8,485	9,352	10,041	8,799	7,212	8,015	11,282	11,592	12,530	13,665	15,128
Tuskegee U.	233	10,986	11,033	11,243	13,132	14,102 i	12,265 i	10,386	10,386	10,386	14,825	15,122

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Massachusetts, Boston	234	17,787	15,040	17,649	13,471	14,544	15,464	17,326	16,308	16,852	16,117	15,007
Rutgers, State U. New Jersey, Newark	235	12,243	17,503	19,296	12,420	11,014	11,118	12,662	15,171	15,129	14,063	14,725
U. Maryland Center for Environmental Science	236	12,123	18,007	16,081	16,852	13,202	11,993	12,156	14,482	14,276	16,573	14,622
U. Denver	237	10,180	10,463	9,135	10,082	8,794	8,134	8,895	9,681	12,938	13,157	14,551
Morgan State U.	238	10,035	9,878	15,279	13,301	14,131	12,693	14,305	13,215	11,450	11,844	14,016
U. Puerto Rico, Rio Piedras	239	21,130	24,336	24,867	17,190	17,489	18,177	15,870	11,137	9,826	13,670	13,767
Jackson State U.	240	34,927	36,460	33,342	27,285	19,898	18,449	19,934	18,997	16,990	16,156	13,560
American U.	241	6,263	6,549	5,254	5,613	7,426	8,444	8,280	7,601	11,237	13,762	13,491
Kent State U.	242	13,311	13,334	13,425	10,009	9,350	9,594	8,733	9,204	10,265	12,576	13,406
U. Hawaii, system office	243	ne	ne	ne	ne	ne	ne	ne	ne	12,328	12,052	13,367
Texas State U.	244	6,815	5,971	6,770	11,088	9,696	11,318	9,786	10,739	12,298	13,503	13,298
Marquette U.	245	9,115	10,898	9,557	8,491	7,988	9,139	10,136	10,111	10,451	12,613	12,981
Texas Tech U., Health Sciences Center	246	12,950	14,790	13,944	14,804	9,480	9,949	9,943	8,995	7,477	11,262	12,977
Albany Medical C.	247	15,758	13,884	11,845	10,278	9,716	9,481	10,714	11,040	10,243	11,827	12,940
U. South Dakota	248	16,353	14,337	13,601	14,991	11,932	8,464	8,827	11,117	12,346	13,312	12,899
Southern Illinois U., Carbondale	249	22,209	23,696	22,055	18,398	16,288	14,895	14,574	13,421	12,733	12,625	12,735
U. Texas Rio Grande Valley	250	na	na	na	na	na	na	16,821	14,766	13,308	13,320	12,590
Meharry Medical C.	251	24,302	26,779	23,467	21,135	17,754	13,068	13,528	15,613	14,515	16,443	12,573

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Texas A&M U.-Corpus Christi	252	7,647	7,225	5,387	5,990	7,085	9,155	7,078	9,057	11,694	13,131	12,453
Delaware State U.	253	9,967	11,901	11,053	11,802	12,464	12,075	14,613	13,909	12,039	11,936	12,436 i
U.S. Naval Academy	254	10,750	10,243	8,868	10,142	10,216	8,978	11,006	12,946	13,331	12,851	12,281
Missouri State U.	255	6,051	4,756	3,697	3,129	3,027	3,141	2,633	2,659	3,977	4,907	12,232
CUNY, Queens C.	256	13,496	15,491	14,829	14,689	15,809	13,532	13,966	11,780	11,882	12,862	12,208
New York Medical C.	257	21,095	21,013	16,471	13,806	11,421	11,326	10,772	9,000 i	8,141 i	11,061 i	12,106
U. North Texas, Denton	258	11,997	12,255	15,921	14,974	15,054	14,286	11,524	14,043	17,514	16,094	12,019
North Carolina Central U.	259	6,870	9,043	10,573	7,750	9,320	10,293	9,691	10,627	10,728	12,235	11,883
California State U., Long Beach	260	12,096	11,570 i	11,044 i	10,517	7,689	6,047	10,960	12,991	13,704	13,380	11,846
U. of the Virgin Islands	261	27,291	15,717 i	22,605	15,627	10,475 i	19,456	20,951	10,701	10,748	9,903	11,778
Louisiana State U., Health Sciences Center, Shreveport	262	13,890	15,316	13,504	11,753	8,490	6,321	6,478	7,055	9,235	12,185	11,452
Embry-Riddle Aeronautical U.	263	8,241	9,257	12,126	9,906	12,614	9,940	13,957	10,501	12,584	8,890	11,391
Ponce Health Sciences U.	264	7,569	9,318	10,486	6,249	4,960	6,729	6,951	7,108	6,386	8,339	11,228
Marshall U.	265	18,218	21,433	13,154	13,468	12,684	11,080	9,077	9,036	8,519	9,579	11,070
Hampton U.	266	14,455	12,292	15,290	12,620	11,153	14,619	13,572	15,908	13,669	12,943	10,842
Northeast Ohio Medical U.	267	4,009	4,081	3,816	5,244	6,582	7,607	9,181	10,043	9,743	10,107	10,684
South Dakota School of Mines and Technology	268	25,172	28,051	14,338	7,853	7,029	9,286	10,370	10,639	10,240	9,283	10,659
U. North Carolina, Greensboro	269	10,857	12,155	10,943	10,520	10,589	11,106	12,279	10,845	10,441	11,527	10,579

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Akron	270	11,943	12,833	16,605	19,600	20,187	14,510	25,362	16,124	12,280	11,627	10,509
Nova Southeastern U.	271	5,669	6,829	6,570	5,334	5,906	5,856	6,922	7,672	7,772	8,911	10,452
Florida Institute of Technology	272	8,903	7,387	7,189	7,112	7,706	8,251	8,714	8,440	8,333	10,043	10,448
California State U., San Marcos	273	3,548	3,548 i	3,548 i	3,550	3,177	3,709	4,591	4,869	6,373	8,007	10,310
Charles R. Drew U. of Medicine and Science	274	20,430	20,679	19,733	17,144	19,412	12,992	12,089	14,461	10,198	10,427	9,863
California Polytechnic State U., San Luis Obispo	275	11,396	8,296	9,618	9,442	8,903	9,651	10,966	10,035	9,313	9,574	9,765
Xavier U. Louisiana	276	5,669	6,673	7,177	5,856	7,077	7,735	10,487	10,901	9,971	8,526	9,628
U. Guam	277	4,962	5,242	5,311	5,390	6,321	5,455	6,576	8,051	8,425	9,104	9,364
CUNY, Advanced Science Research Center	278	na	na	na	na	na	257	ne	2,355	4,027	6,859	9,208
Prairie View A&M U.	279	8,623	11,041	10,561	9,077	8,259	7,958	7,896	8,674	8,386	9,246	9,134
Miami U.	280	11,546	11,476	12,447	11,314	10,311	9,278	7,699	7,568	7,924	7,680	8,829
CUNY, Graduate School of Public Health and Health Policy	281	na	na	na	na	na	na	na	na	5,080	5,572	8,722
Baylor U.	282	2,842	3,386	3,289	3,435	3,991	3,839	4,214	5,255	5,749	6,885	8,684
U. Nebraska, Omaha	283	4,128	5,034	5,589	5,230	4,979	4,484	6,657	7,038	7,043	7,655	8,626
Langston U.	284	3,313	3,778	3,957	4,153	5,816	5,621	8,941	7,960 i	7,146 i	6,331	8,584
Rosalind Franklin U. of Medicine and Science	285	8,350	9,317	10,084	11,202	9,754	9,368	8,478	8,828	9,249	8,865	8,504

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
Tennessee State U.	286	6,936		7,732		9,393		9,354		11,886		10,920		11,590		9,226		9,336		8,449		8,487	
Texas A&M U.-Kingsville	287	5,067		4,765		4,980		4,988		6,415		5,483		5,910		5,827		5,640		6,874		8,253	
California State U., Los Angeles	288	7,027		8,296		6,739		6,948		4,788		3,794		3,452		6,499		8,530		9,088		8,088	
U. Maryland, Eastern Shore	289	8,583		8,587		6,955		8,511		8,902		9,284		7,853		7,265		4,890		6,983		8,084	
U.S. Military Academy	290	19,763	i	12,314		11,702		11,612		13,247		13,135		12,281		7,247		6,313		6,432		8,068	
U. Texas Health Science Center, Tyler	291	ne		ne		ne		ne		ne		3,713		3,757		5,792		6,438	i	7,084	i	7,732	
SUNY, C. of Environmental Science and Forestry	292	8,907		8,732	i	8,557	i	8,382	i	5,564	i	7,784		8,109		7,658		6,854		7,632		7,718	
Idaho State U.	293	13,591		16,821		15,711		12,738		10,566		11,510		11,827		11,084		9,737		7,222		7,693	
Teachers C., Columbia U.	294	6,478		8,433		10,120		8,492		8,909		12,666		11,373		10,194		8,925		8,054		7,614	
Creighton U.	295	11,850		14,080		14,209	i	13,272	i	11,427	i	9,164	i	10,406	i	7,787	i	5,601	i	8,113	i	7,444	i
Central Michigan U.	296	2,301		4,315		4,965		5,325		5,982		5,108		4,883		5,550		7,121		8,100		7,429	
East Tennessee State U.	297	6,121		7,705		8,052		6,825		4,865		4,664		5,655		5,870		7,168		7,688		7,329	
Chapman U.	298	1,429		1,215		1,465		2,227		2,170		2,348		2,951		3,414		3,780		5,359		7,313	
Norfolk State U.	299	5,413		6,345		7,739		5,465		6,381		4,918		6,947		7,101		6,877		7,935		7,121	
Alcorn State U.	300	9,256		8,655		8,598		8,321		7,447		6,784		6,387		8,634		7,372		7,540		7,023	
Louisiana Tech U.	301	9,715		10,351		8,296		7,593		6,577		5,433		5,013		5,438		5,710		6,303		7,000	
Clarkson U.	302	9,408		9,531		7,061		5,275		5,462		5,436		6,183		6,538		7,814		8,350		6,876	
U. Arkansas, Little Rock	303	6,578		7,995		7,894		6,076		4,559		3,736		4,473		4,220		4,942		6,114		6,660	
U. Minnesota, Duluth	304	6,427		8,372		7,560		7,264		5,940		10,025		8,055		6,033		5,520		7,082		6,393	
Tennessee Technological U.	305	6,958		5,119		4,154		3,566		3,662		3,508		4,015		4,808		5,269		5,996		6,338	

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Massachusetts, Dartmouth	306	11,236	12,253	10,329	8,076	8,413	7,134	6,463	7,118	6,595	6,957	6,066
Northern Illinois U.	307	16,907	11,226	12,311	12,178	8,697	8,915	9,679	6,164	6,925	6,705	6,025
U. North Carolina, Wilmington	308	13,026	12,933	10,032	7,599	4,480	4,519	4,595	4,834	5,001	6,405	5,984
U. Missouri, Saint Louis	309	5,886	8,214	7,990	6,821	5,293	3,984	4,343	4,710	5,889	6,759	5,840
Alabama A&M U.	310	22,154	21,355 i	21,322 i	21,290 i	21,257 i	21,222 i	17,863 i	14,566 i	11,267 i	7,968 i	5,432 i
Western Michigan U. and Homer Stryker M.D. School of Medicine	311	10,120	11,444	8,295	7,547	7,185	7,216	6,863	7,447	6,948	5,654	5,374
California State Polytechnic U., Pomona	312	2,523	2,964	2,635	2,945	2,165	1,826	2,199	3,225	4,181	3,131	5,300
U. Hawaii, Hilo	313	10,491	5,243	14,195	10,989	8,522	12,718	9,401	5,461	5,264	4,924	5,274
Clark Atlanta U.	314	7,229	7,040	8,447	7,576	7,241	7,439	6,017	5,752	5,611	5,550	5,213
U. New England	315	2,829	3,242	3,359	4,271	4,762	4,856	5,298	5,918	4,976	5,269	5,064
Oakland U.	316	7,024	9,001	8,168	6,855	5,986	5,339	6,154	6,414	5,733	6,690	5,058
DePaul U.	317	3,874	4,601	4,800	4,236	4,818	4,436	4,601	5,393	4,496	4,331	5,024
California State U., Sacramento	318	5,032	6,145	4,878	6,893	4,769	5,148	4,773	5,876	5,620	5,238	4,892
Fort Valley State U.	319	4,586	3,452	3,334	3,329	4,249	4,079	4,844	5,068	3,700	4,433	4,806
Arkansas State U., Jonesboro	320	6,169	8,591	9,595	6,268	3,849	4,315	4,826	4,396	4,371	4,867	4,712
Morehouse C.	321	7,704	8,280 i	8,856	9,169	6,919	5,836	4,199	3,663	4,365	4,427	4,686
Virginia State U.	322	5,080	5,642	6,852	6,108	5,321	4,848	5,017	4,357	4,814	5,486	4,630
Duquesne U.	323	5,032	5,103	4,614	3,289	3,980	4,394	4,973	4,959	4,944	4,316	4,579
St. Edward's U.	324	ne	3,073	2,450	2,640	1,633	4,200	3,600	5,560	1,596	4,893	4,568
Bowling Green State U.	325	4,963	6,162	6,957	9,287	6,520	4,067	4,221	3,565	3,275	3,878	4,555

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Tulsa	325	6,819	7,547	6,615	6,041	5,487	5,885	6,037	5,816	4,440	3,891	4,555
Villanova U.	327	6,367 i	6,817 i	5,518 i	4,218	5,008	4,563	4,334	3,968	3,955	3,956	4,476
Kentucky State U.	328	3,501	3,146	4,919	3,906	4,335	4,590	5,146	5,382 i	5,618	4,691	4,456
U. Arkansas, Pine Bluff	329	3,947	4,696	4,540	4,550	3,875	3,912	4,233	3,747	3,648	4,299	4,393
CUNY, Brooklyn C.	330	5,002	6,724	6,305	5,831	5,709	5,439	5,836	4,968	4,149	4,210 i	4,385
Montana Technological U.	331	5,321	4,999	3,293	3,507	3,202	3,420	3,916	5,019	4,691	4,926	4,322
California State U., Bakersfield	332	637	727	641	1,721	1,140	1,854	1,662	2,416	3,243	4,245	4,244
U. Detroit Mercy	333	629	602	508	ne	317	890	2,565	2,296	4,385	4,908	4,201
Tarleton State U.	334	6,379	6,036	5,086	3,525	3,565	3,801	4,484	4,602	4,288	4,632	4,139
California State U., Fullerton	335	6,710	7,957	6,477	6,264	6,325	4,640	3,651	3,865	4,610	4,117	4,102
Western U. of Health Sciences	336	885	900	1,268	1,130	1,368	1,099	2,299	2,714	2,562	2,573	4,055
Wellesley C.	337	3,406	2,461	2,895	3,130	3,579	2,971	5,065	3,725	3,668	3,447	4,024
West Virginia State U.	338	2,759	3,193	3,945	3,292	5,646	5,561	4,126	5,072	5,361	4,526	3,993
Dakota State U.	339	ne	402	3,555	831	908	765	1,448	1,989	3,273	3,006	3,957
U. Tennessee, Chattanooga	340	4,866	2,929	3,199	2,056	1,486	1,949	1,092	1,144	1,490	2,393	3,915
California State U., Monterey Bay	341	3,167	4,713	4,341	4,961	3,862	3,459	3,654	3,574	3,607	3,746	3,889
Western Washington U.	342	4,137	4,153	3,714	3,287	3,425	3,879	3,972	4,216	3,884	3,842	3,838
Fisk U.	343	7,686	4,631	4,058	5,429 i	7,366	7,123 i	7,512	4,327	2,781	4,473	3,811
U. of Health Sciences and Pharmacy in St. Louis	344	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,767
U. New Orleans	345	14,185	12,475	11,481	9,729	8,716	6,787	6,617	5,502	5,246	4,272	3,741

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Illinois State U.	346	3,449	3,264	2,954	3,203	3,463	2,872	2,878	2,742	2,742	4,390	3,639
Lincoln U., Jefferson City	347	5,984	7,084	6,306	4,989	5,460	5,492	4,953	4,148	2,498	2,700	3,636
California State U., San Bernardino	348	2,119 i	6,212	5,914	5,633	6,004	5,628	5,920	5,423	5,436	5,991	3,574
Wesleyan U.	349	4,475	5,361	4,612	3,930	3,313	3,582	3,393	3,817	3,990	4,211	3,559
Clark U.	350	3,243	3,776	2,970	2,649	2,643	2,297	1,930	2,465	2,949	3,489	3,350
Winston-Salem State U.	351	ne	743	1,280	436	ne	ne	1,069	1,175	1,289	1,468	3,234
Youngstown State U.	352	2,067	3,304	2,159	1,825	1,867	2,346	1,083	3,257	3,634	2,878	3,190
South Carolina State U.	353	6,333	6,797 i	7,261	2,958 i	2,231 i	1,503	4,376 i	13,254	13,846 i	3,010	3,123 i
U. Colorado Colorado Springs	354	6,453	5,420	2,935	2,471	3,150	3,791	3,717	4,267	3,734	2,752	3,110
Central State U.	355	2,544	3,475	3,340	2,686	2,000	1,508	1,546	1,491	2,299	2,517	3,097
Toyota Technological Institute, Chicago	356	ne	496	ne	ne	ne	1,392	1,410	1,581	1,759	1,934	3,038
MGH Institute of Health Professions	357	ne	408	ne	ne	ne	3,766	2,228	1,839	2,957	3,494	3,014
California State U., Fresno	358	3,089	3,589	3,517	2,682	2,852	3,040	2,979	3,162	3,925	2,897	3,004
Western Kentucky U.	359	6,606	6,079	5,639	4,161	2,916	2,983	3,346	3,285	2,860	3,128	2,977
Texas Southern U.	360	3,638	3,806	4,287	4,741	2,764	2,801	2,825	3,654	2,368	3,238	2,941
U. Washington, Tacoma	361	47	108	130	0	0	1,386	1,595	727	1,523	2,451	2,899
Texas Christian U.	362	2,161	2,483	3,253	3,767	3,690	3,291	2,671	2,523	2,311	2,211	2,840
Fordham U.	363	3,426	3,086	3,193	3,748	3,239	2,789	4,760	4,750	4,210	3,171	2,834
C. Charleston	364	10,105	4,438	5,259	5,354	4,114	4,863	5,026	5,020	3,653	3,689	2,781
Montclair State U.	365	1,113	2,552	3,265	2,944	1,900	2,116	2,301	1,974	2,942	3,050	2,766

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central del Caribe	366	6,504	6,613	6,304	5,946	6,407	6,147	6,290	4,866	2,937	2,705	2,743
Barnard C.	367	2,702	3,226	3,122	2,530	2,190	2,166	2,794	2,645	2,291	2,701	2,680
Haverford C.	367	2,698	1,851	1,478	1,547	1,309	1,476	972	1,031	1,660	2,339	2,680
Florida Gulf Coast U.	369	2,661	2,740	1,902	1,553	1,153	1,139	1,377	1,105	764	944	2,639
CUNY, Lehman C.	370	2,348 i	2,700	2,208	1,874	2,247	2,371	3,625	3,713	4,177	2,181	2,614
Oklahoma State U., Center for Health Sciences	371	817	377	83	61	31	321	697	984	959	944	2,602
National Defense U.	372	ne	ne	ne	4,906	6,712	4,832	5,720	5,723	2,219	2,155	2,583
Alabama State U.	373	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582
Southern U. and A&M C., Baton Rouge	374	5,920	6,057 i	6,194	3,998	2,714	3,258	2,778	2,812	2,902	2,680	2,567
Southern Illinois U., Edwardsville	375	4,140	3,946	2,808	2,896	2,066	2,111	3,077	3,472	2,907	2,951	2,564
Eastern Michigan U.	376	3,375	3,802	3,081	2,194	932	1,274	1,200	1,005	1,137	1,971	2,520
Smith C.	377	2,755	3,101	2,626	2,824	3,042	3,575	2,563	3,352	3,288	2,887	2,483
CUNY, John Jay C. of Criminal Justice	378	3,079	3,410	2,786	2,839	2,164	2,342	2,467	1,833	2,949	1,154	2,472
Sam Houston State U.	379	4,887	2,098	2,422	1,729	1,733	1,488	1,830	1,872	2,200	2,316	2,444
Humboldt State U.	380	2,965	3,292	3,575	2,819	2,498	3,280	4,455	3,796	3,024	2,103	2,399
U. South Carolina, Aiken	381	122 i	592	ne	937	759 i	689	1,155	2,697	2,437	2,063	2,328
Ball State U.	382	1,712	1,701	2,171	1,267	1,617	1,828	2,813	2,083	2,749	2,607	2,290
CUNY, C. Staten Island	383	949	1,470	1,242	1,302	1,241	1,021	1,694	1,524	1,737 i	2,120	2,262

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Michigan, Dearborn	384	2,801	4,291	2,881	3,103	2,882	1,844	2,035	1,860	1,341	1,722	2,244
CUNY, Graduate Center	385	2,663	1,652	1,849	2,180	2,127	1,707	1,004 i	830	2,313	2,785	2,206
U. Wisconsin-Stevens Point	386	4,455	3,752 i	3,049	2,131	1,740 i	1,349 i	957 i	1,266 i	1,575 i	1,884 i	2,193
Northwest Indian C.	387	1,943	1,993 i	2,044	2,216	1,705 i	1,154 i	ne	ne	1,649	2,201	2,181 i
Spelman C.	388	2,740	1,833	1,874	1,366	1,185	1,035	1,291	1,227	1,673	2,004	2,136
U. Southern Maine	389	2,498	3,592	5,415	4,515	3,071 i	2,460 i	1,848	2,252	2,237	2,275	2,128
Pace U.	390	627	952	1,469	1,054	1,155	1,329	1,170	862	610	1,537	2,120
Tougaloo C.	391	2,978	2,542	1,865	1,857	1,894	1,868	1,747	2,252	2,860	2,293	2,102
Southern U. and A&M C., Agricultural Research and Extension Center	392	ne	4,049	5,926	3,481	3,363	2,514	2,415	2,736 i	3,057	3,057	2,085
U. West Florida	393	2,310	1,505	809	646	883	1,061	684	793	1,149	1,210	2,062
U. San Diego	394	1,332	1,139	1,903	2,002	2,435	1,799	2,121	2,299	2,362	2,494	2,048
U. Louisiana, Monroe	395	1,470	1,971	1,752	976	1,705	1,479	2,016	1,838	1,789	1,949	2,025
U. of the District of Columbia	396	1,946	2,313	2,430	2,168	1,627	1,434	2,451	2,659	2,021	2,526	2,020
Towson U.	397	1,806	2,630	1,771	2,015	1,870	1,325	1,449	1,453	2,133	2,141	1,999
James Madison U.	398	5,563	5,218	6,476	4,604	2,997	2,418	2,189	2,172	1,640	2,075	1,973
Purdue U., Northwest	399	na	na	na	na	na	na	na	2,218	1,927	1,513	1,969
Rutgers, State U. New Jersey, Camden	400	1,765	1,259	1,248	1,511	1,728	1,984	2,637	2,322	1,495	1,096	1,952
California State U., Chico	401	1,466	1,209	1,332	1,668	1,085	743	851	577	1,051	1,359	1,943

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Albany C. of Pharmacy and Health Sciences	402	1,380	1,634	1,182	1,333	1,643	1,065	380	566	1,092	1,690	1,938
Murray State U.	403	2,074	2,471	1,904	816	601	793	555	1,200	1,587	2,607	1,911
Claflin U.	404	3,226	5,103	5,090	2,556	1,511	1,158	1,726	1,344	1,491	1,735	1,907
Middle Tennessee State U.	405	2,428	1,595	4,207	1,897	1,022	1,609	2,564	2,212	2,206	1,572	1,896
Bates C.	406	971	1,485	1,555	1,390	1,114	2,004	1,156	1,053	1,121	1,607	1,885
Bowdoin C.	407	1,806	1,876	3,300	3,240	2,330	2,154	2,452	1,811	2,026	1,777	1,862
U. North Carolina, Asheville	408	1,367	1,519	1,565	1,505	1,174	1,452	2,202	1,714	1,309	1,262	1,848
Skidmore C.	409	1,872	1,562	1,334	1,448	1,170	969	732	1,179	1,878	2,261	1,827
Saginaw Valley State U.	410	77	525	330	203	ne	223	228	595	1,215	2,332	1,809
St. John's U., New York	411	1,161	1,181	1,095	868	879	942	868	961	1,528	1,666	1,805
Savannah State U.	412	1,774	2,518	1,874	2,514	2,127	1,796	2,245	1,388	1,778	1,709	1,804
U. Northern Iowa	413	499	1,597	1,982	2,146	2,007	1,847	2,267	2,153	1,697	2,343	1,792
Grand Valley State U.	414	1,078	1,610 i	2,142 i	2,675	2,151	2,033	1,479	1,365	1,719	1,663	1,783
Western Illinois U.	415	658	742	3,855	1,183	735	350	ne	1,198	1,535	1,486	1,781
Amherst C.	416	966	1,775	1,810 i	1,846	1,543	1,835	1,207	1,228	1,630	2,118	1,775
Georgia Southern U.	417	1,882	1,520	1,341	1,990	3,123	2,923	2,540	2,826	1,758	1,765	1,759
Harvey Mudd C.	418	2,049	2,594	2,038	2,004	1,457	1,633	2,320	1,521	1,762	1,619	1,748
Pacific U.	419	565	75	198	1,669	539	350	708	2,830	1,559	2,731	1,719
Central Washington U.	420	4,038	2,238	1,840	1,242	1,108	1,575	1,580	2,287	1,840	2,159	1,701
Hawaii Pacific U.	421	ne	525	858	850	1,116	789	2,071	1,921	1,905	1,809	1,699
Kennesaw State U.	422	1,105	983	1,127 i	1,271	1,397	713	1,037	1,182	1,306	1,738	1,696

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
SUNY, C. of Optometry	423	2,829	3,336	3,162	2,757	2,567	2,490	2,487	2,073	1,944	1,823	1,688
Texas Tech U., Health Sciences Center, El Paso	424	ne	ne	ne	ne	5,316	2,689	2,953	2,329	2,489	2,238	1,675
Morehead State U.	425	1,291	1,656	1,591	1,798	961	1,064	1,668	2,051	1,672	1,471	1,657
Reed C.	426	796	772	678	897	1,092	1,638	1,690	415	1,065	1,423	1,635
Western Carolina U.	427	1,273	691	931	647	669	740	873	963	992	1,650	1,615
U. Richmond	428	2,050	1,705	2,097	1,747	2,004	1,738	1,924	1,870	1,628	1,545	1,588
Occidental C.	429	644	898	1,079	1,105	1,365	853	1,260	701	888	1,614	1,567
U. Oklahoma, Tulsa	430	ne	ne	ne	ne	ne	882	1,046	883	1,531	1,415	1,559
Middlebury C.	431	2,245	2,289	2,513	1,760	1,320	1,535	1,736	2,002	1,701	1,558	1,546
Touro U.	431	999	1,196	1,390	1,351	1,374	1,332	1,199	1,196	1,410	1,540	1,546
Troy U.	433	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,536
Santa Clara U.	434	3,494	1,992	1,953	1,641	1,992	1,224	1,634	1,406	1,520	1,266	1,487
New York Institute of Technology	435	250	369	950	2,097	3,049	2,070	1,536	983	1,439	3,072	1,485
CUNY, York C.	436	ne	1,507	812	693	ne	288	ne	ne	ne	1,477	1,480
CUNY, Baruch C.	437	1,010	1,025	1,209	547	548	838	1,214	1,027	1,154	1,359	1,470
Mount Holyoke C.	438	1,346	1,883	1,790	1,775	2,374	2,314	2,848	3,168	2,210	2,074	1,442
U. New Haven	439	ne	199	235	728	344 i	183	2,157	474	3,853	2,786	1,440
Northern Kentucky U.	440	1,476	1,573	1,474	1,239	1,396	1,246	1,061	1,047	780	1,223	1,415
Palmer C. of Chiropractic, Davenport	441	3,009	3,344	2,906	1,991	1,775 i	1,558	1,485	1,189	1,100	1,100	1,400
U. Wisconsin-Superior	442	5,197	5,638 i	5,302 i	ne	1,941 i	ne	ne	ne	1,916	1,527	1,382
Northeastern Illinois U.	443	288	311	ne	ne	588	ne	ne	805	1,877	2,078	1,378
Appalachian State U.	444	1,662	2,398	2,264	1,722	2,186	1,795	1,896	2,629	1,840	1,298	1,375

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020	
U. Central Arkansas	445	1,560		1,300		1,314		1,033		1,145		1,222		931		1,183		1,113		1,347		1,374	
Bowie State U.	446	ne		1,910		1,739		1,422		1,761		1,497		1,507		987		1,100		876		1,368	
U. of the Pacific	447	1,667		1,414		749		823		985		1,019		1,879		1,403		2,057		2,144		1,362	
California State U., Dominguez Hills	448	2,658		2,671		2,689		2,738		1,384	i	1,035		1,124		753		1,072		1,135		1,360	
CUNY, New York City C. of Technology	449	59		145		ne		ne		ne		ne		ne		ne		1,978		1,795		1,359	
Bucknell U.	450	2,626		2,600		1,514		1,581		1,724		1,489		1,368	i	1,317	i	1,266		1,403		1,347	i
Christopher Newport U.	450	1,035		1,587		1,230		1,083		1,263		938		779		859		1,068		1,285		1,347	
U. Wisconsin-Oshkosh	452	769		1,100		1,140		932	i	1,012	i	1,046	i	ne		1,115	i	1,165	i	1,237	i	1,289	i
California State U., Stanislaus	453	ne		1,037	i	1,070		650		341		174		221		478		734		964		1,284	
U. Puerto Rico, Humacao	454	1,950	i	1,976		1,949		1,452		1,102		669		ne		ne		882		828		1,279	
Long Island U.	455	545	i	590	i	577	i	567		ne		ne		346		1,183		1,416		1,647		1,277	
Lewis and Clark C.	456	818		684		718		1,490		1,378		872		636		723		834		931		1,268	
U. Central Oklahoma	457	1,059		1,146		750		765		993		1,422		1,081		850		1,048		1,277		1,266	i
U. Washington, Bothell	458	435		363		323		0		711		1,222		546		747		917		1,800		1,260	
U. Nebraska, Kearney	459	289		1,018		714		838		652		513		870		975		1,014		1,227		1,259	
Davidson C.	460	1,153		1,053		651		1,574		1,166		1,703		810		1,099		738		895		1,254	
West Texas A&M U.	461	2,100		1,340		1,785		1,314		1,324		1,635		1,523		1,108		1,104		1,278		1,253	
SUNY, Buffalo State	462	1,247		1,958		2,348		1,336		1,076		846		849		860		1,040		1,203		1,240	
Carleton C.	463	1,643		2,132		2,212		3,326		3,046		1,077		832		727		933		1,891		1,236	
Black Hills State U.	464	1,355		1,097		1,118		1,123		662		635		1,127		812		813		860		1,234	
U. Northern Colorado	465	1,606		1,513		1,117		956		1,867		1,230		1,674		1,752		1,745		1,518		1,233	
Fort Lewis C.	466	325		511		ne		ne		ne		ne		ne		ne		ne		1,284		1,228	

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Indiana U. Pennsylvania	467	489	616	669	101	169	ne	321	1,303	891	1,773	1,221
Coastal Carolina U.	468	1,533	1,439	1,474	1,691	1,281	1,041	858	1,028	1,031	1,294	1,211
U. Puerto Rico, Cayey	469	601	871	1,515	1,168	1,143	959	1,105	704	632	963	1,210
Franklin and Marshall C.	470	1,857	1,397	1,116	879	867	991	945	1,711	1,760	1,580	1,202
Trinity U.	471	964	1,046	1,222	1,989	1,535	1,151	956	977	1,116	878	1,195
U. North Florida	472	4,516	5,048	3,760	1,424	1,045	1,184	1,333	1,287	1,325	1,243	1,167
Dillard U.	473	2,711	5,019 i	7,325	7,692	6,889	8,851	7,585	5,592	5,503	1,390	1,164
Colorado State U., Pueblo	474	364	354	ne	ne	ne	ne	ne	ne	ne	1,282	1,161
Lamar U.	475	4,184	3,959	3,057	1,604	1,118	297	218	917	1,280	1,604	1,157
Hope C.	476	2,523	2,414	1,912	1,993	1,834	1,436	1,251	1,157	1,088	1,349	1,126
U. of the Sciences Philadelphia	476	965	1,338	1,287	1,357	937	851	1,153	1,102	1,095	1,318	1,126
Pomona C.	478	1,038	1,769	1,528	2,144	1,789	1,074	1,579	1,038	867	861	1,123
Rhode Island C.	479	ne	1,195	1,140	993	851	726	1,107	860	669	726	1,102
Keck Graduate Institute	480	ne	1,744	1,671	1,227	1,302	937	949 i	969 i	987 i	1,059 i	1,093 i
Eastern Washington U.	481	46	559	725	1,226	885	955	1,244	1,181	997	811	1,092
U. Alaska, Southeast	481	1,150	941	887	1,001	1,158	1,341	1,502	1,480	1,636	1,235	1,092
Johnson C. Smith U.	483	ne	ne	ne	ne	ne	ne	483	603	994	913	1,087
Williams C.	484	2,330	2,117	2,029	1,498	1,029	1,700	1,614	1,703	1,458	1,131	1,086 i
Hobart and William Smith Colleges	485	1,030	1,206	914	1,786	666	378	ne	528	ne	1,047	1,072
William Paterson U.	485	105	140	ne	ne	ne	ne	299	178	195	626	1,072
Vassar C.	487	1,236	1,552	993	1,136	999	954	1,417	1,579	4,185 i	909	1,055
Keene State C.	488	ne	846	664 i	482	829	820	ne	754	ne	1,022	1,043
New Mexico Highlands U.	489	963	986	704	741	969	ne	1,086	1,015	741	ne	1,034

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Baltimore	490	1,518	2,328	2,391	2,063	2,513	2,390	3,479	2,922	1,642	1,309	1,024
Trinity C., Hartford	491	1,026	1,217	1,432	1,040	1,313	889	893	2,084	794	1,077	1,019
California State U., East Bay	492	643	921	536	310	ne	ne	479	ne	ne	ne	1,018
Swarthmore C.	493	901	1,005	1,115	1,203	1,261	1,352	1,393	1,402	1,343	1,367	1,011
Texas A&M U.-Commerce	494	1,078	941	1,182	1,319	1,067	1,121	582	604	956	780	1,004
Loyola Marymount U.	495	894	2,759	1,139	1,154	906	809	638	705	616	982	997
Elizabeth City State U.	496	5,352	10,176	3,673	3,767	1,956	1,644	1,619	1,305	960	ne	992
New School	497	1,376	1,512	1,830	2,370	1,892	2,106	2,366	2,126	1,665	1,790	986
Ithaca C.	498	617	627	774	788	763	570	ne	ne	ne	ne	981
U. Illinois, Springfield	499	332	373	554	503	405	307	527	1,169	1,108	966	971
SUNY, Geneseo	500	679	1,278	1,499	609	455	635	908	992	998	1,184	950
Alfred U.	501	1,645	1,964	1,625	1,447	1,310	1,305	1,318	883	1,403	1,580	947
U. Ana G. Mendez, Gurabo	502	212	377	446	362	1,008	346	357	423	418	951	946
Texas A&M International U.	503	1,481	1,191	985	868	977	658	911	1,722	1,980	1,814	941
Midwestern U.	504	285	438	427	369	517	654	1,060	1,184	1,278	1,045	936
Sonoma State U.	504	690	559	ne	1,800	1,581	964	531	ne	ne	ne	936
SUNY, C. Plattsburgh	506	1,187	726	454	ne	459	717	545	455	1,254	1,142	930
U. South Florida, Saint Petersburg	507	287	141	243	167	201	95	557	884	1,016	1,026	929
Providence C.	508	857	726	ne	827	ne	1,162	981	783	960	857	913
National U. of Natural Medicine	509	ne	247	ne	ne	ne	ne	ne	427	ne	760	912
Gallaudet U.	510	4,584	3,876	3,712	3,916	2,586	2,064	2,133	2,273	2,142	1,105	899
C. New Jersey	511	447	188	ne	ne	ne	ne	ne	874	778	ne	888

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Southern Connecticut State U.	512	0	899	605 i	446	1,620 i	1,205 i	981	1,004	766	718	885
Southeastern Louisiana U.	513	942	735	794	815	692	1,212	757	1,027	830	586	884
Stephen F. Austin State U.	513	4,704	1,385	953	1,055	1,118	1,565	1,011	835	785	1,297	884
Texas Woman's U.	515	822	942	1,058	588	423	299	573	407	326	677	882
CUNY, system office	516	ne	ne	819	397	352	828	774	420	1,977	1,347	869
U. of the Incarnate Word	516	ne	111	ne	ne	ne	403	ne	ne	868	1,075	869
Calvin U.	518	2,031	556	664	731	1,208	1,034 i	795	880	1,332	900	864 i
U. Wisconsin-Green Bay	519	724	631 i	592 i	552 i	512 i	470 i	833 i	604 i	526 i	792 i	859 i
Colgate U.	520	1,519	1,058	1,497	1,320	1,153	1,109	1,217	1,096	1,389	1,202	858
Furman U.	521	1,245	984	1,044	1,108	857	1,071	1,068	1,292	1,110	1,106	847
Roger Williams U.	522	1,056	1,391	1,362	1,206	1,454	1,124	1,215	1,183	854	828	844
Suffolk U.	523	ne	299	198	351	313	217	411 i	573 i	ne	ne	842
U. Hartford	523	820	1,571	1,450	1,165	1,080	992	1,172	1,178	62	1,019	842
Bryn Mawr C.	525	932	1,469	1,619	1,853	1,346	1,713	1,641	1,432	1,265	1,052	833
Polytechnic U. Puerto Rico	526	ne	193	ne	ne	ne	ne	ne	ne	ne	1,884	813
U. Wisconsin-La Crosse	527	2,150	2,013 i	1,876	1,240	1,095	1,006	1,250	1,158	1,171	775	809
Claremont Graduate U.	528	4,888	1,050	6,200	7,030	5,517 i	4,696 i	3,876 i	3,056 i	2,236 i	1,414	803
Fayetteville State U.	529	2,188	1,810	1,421	1,690	2,185	1,792	2,740	2,202	2,251	1,974	799
Colby C.	530	1,015	1,002	1,148	989	943	1,038	1,061	1,038	1,188	1,058	787
New England C. of Optometry	531	726	1,236	1,685	1,588	533	419	618	ne	837	928	785
SUNY, C. Brockport	532	521	677	989	755	564	535	639	747	672	638	781
Saint Joseph's U.	533	960	683	565	292	147	169	160	129	163	261	775

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Saint Michael's C.	533	487	471	ne	1,293	1,242	1,153	1,396	1,228	1,255	964	775
U. Texas, Tyler	535	1,689	977	2,084	1,325	280	309	352	613	718	813	774
Yeshiva U.	536	163,399	197,032	201,397	193,831	186,885	180,791	30,266	816	683	380	772
Fort Hays State U.	537	ne	ne	ne	ne	ne	ne	ne	ne	ne	690	761
Doane U.	538	ne	1,008	546	ne	846	390	ne	ne	725	728	752 i
Lafayette C.	539	1,223	1,421	1,149	1,145	853	1,052	858	1,303	968	838	745
Oberlin C.	540	1,359	1,183	1,330	1,204	1,204	1,364	962	1,558	1,096	1,576	743
Claremont McKenna C.	541	1,102	1,061	1,082 i	1,081 i	1,080 i	ne	604	754	555	730	741
U. Texas of the Permian Basin	542	627	692	786	716	489	595	510	328	50	ne	736
Naval War C.	543	ne	ne	0 i	0 i	0 i	0	0	3,797 i	4,384	679	724
Kenyon C.	544	413	358	ne	ne	ne	ne	ne	ne	764	776	714
Winthrop U.	545	ne	871	935	651	594	676	490	391	442	634	697
Mercyhurst U.	546	703	174	145	134	97	77	95	405 i	ne	656 i	678 i
Stockton U.	547	ne	405	160	ne	380	198	221	ne	246	549	663
Biola U.	548	ne	ne	ne	ne	ne	ne	555 i	567 i	588 i	631 i	652 i
Macalester C.	549	1,044	1,455	1,075	871	878	708	771	970	553	805	647
U. Wisconsin-Eau Claire	549	1,271	826	786	646	393	ne	660	925	690	742	647
Indiana State U.	551	990	1,352	1,268	858	1,005	925	954	510	629	821	635
Benedict C.	552	1,473	2,925	2,713	2,625	2,443	1,373	1,621	1,634	1,889	1,226	633
U. Houston-Clear Lake	553	301	818	730	875	739	541	756	753	894	718	632
California State U., Maritime Academy	554	ne	1,200	1,748	1,257	122	23	71	225	550	617	621
Grinnell C.	555	1,155	287	648	372	414	546	340	582	588	326	617
Milwaukee School of Engineering	556	1,177	1,181	1,207	1,245	1,500	1,335	1,164	775	680	764	613
Hofstra U.	557	920	948	1,117	666	997	1,836	1,762	1,307	1,060	915	606
Northwestern State U. Louisiana	558	635	683	609	590	494	ne	490	458	490	579	598

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Midwestern State U.	559	10	ne	ne	ne	ne	ne	ne	ne	ne	ne	593
West Chester U. Pennsylvania	560	3,531 i	5,691	788	513	392	500	453	618	425	704	575
Edward Via C. of Osteopathic Medicine	561	ne	707	502	517	250	89	88	94	195	749	566
U. North Carolina, general administration	562	ne	ne	ne	ne	ne	337	174	161	98	213	562
Purdue U., Fort Wayne	563	1,231	1,490	1,132	1,121	806	956	742	688	766	476	561
Whitman C.	564	1,072	957	398	ne	ne	ne	ne	ne	ne	701	558
Lipscomb U.	565	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	548 i
Pennsylvania State U., Behrend	566	887	1,029	1,232	1,341	1,596	1,474	2,397	1,658	1,025	1,424	543
Seton Hall U.	567	2,206	1,259	679	691	688	736	825	850	724	810	539
CUNY, Medgar Evers C.	568	364	1,315	981	1,066	660	686	ne	1,007	965	954	538
Minnesota State U., Mankato	569	2,001	812	667	297	296	357	1,189	522	639	708	525
Eastern Kentucky U.	570	2,371	2,736	2,149	1,630	1,251	919	1,000	758	619	598	524
Kean U.	571	ne	550	1,191	347	ne	244	8	ne	ne	ne	522
U. Ana G. Mendez, Carolina	572	1,126	1,158	1,130	972	656	530	564	782	391	ne	520
Central Connecticut State U.	573	351	662	666	601	433	193	131	208	ne	328	518
California State U., Channel Islands	574	ne	311	ne	316	520	825	244	122	269	500	513
Albany State U.	575	396	893	1,988	1,532	1,271	1,005	965	842	649	903	506
SUNY, Oswego	576	644	871	ne	673	ne	ne	ne	669	661	628	492

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Wisconsin-River Falls	577	134	174 i	ne	ne	ne	ne	ne	501	445	ne	488
Seattle U.	578	467 i	622	530	ne	848	890	809	748	873	574	487
Liberty U.	579	ne	ne	ne	ne	ne	ne	ne	ne	ne	535	486
Connecticut C.	580	954	1,005	1,130	833	514	756	817	777	505	752	483
Sul Ross State U.	581	1,595	1,672	1,073	735	546	333	272	440	553	339	481
Pittsburg State U.	582	999	1,280	989	791	1,006	448	270	316	195	339	477
Austin Peay State U.	583	ne	729	481	364	189	334	301	347	599	295	475
Citadel Military C. South Carolina	584	ne	157	ne	ne	ne	ne	ne	ne	ne	ne	470
Union C., Schenectady	585	1,427	959	867	1,863	1,385	1,080	1,680	554	872	964	462
U. of St. Thomas (MN)	586	656	720	557	570	352	ne	195	212	320	313	450
Pennsylvania State U., Harrisburg	587	963	1,288	1,161	377	194	565	270	215	292	80	437
Des Moines U.	588	62	91	ne	ne	224	ne	363	842	897	805	425
Kettering U.	589	4,477	3,452	1,985	1,084	908	666	817	1,395	883	321	423
Philadelphia C. of Osteopathic Medicine	590	812	850	694	277	104	192	150	260	260	346	422
Northern Michigan U.	591	287	124	ne	ne	ne	ne	228	96	151	258	418
West Virginia School of Osteopathic Medicine	592	22	17	ne	ne	ne	ne	ne	ne	ne	ne	414
U. Massachusetts, central office	593	ne	ne	485	131	185	86	201	402	408	333	410
Manhattan C.	594	166	245	ne	ne	ne	ne	ne	ne	ne	245	398
U. Puget Sound	595	86	186	ne	ne	ne	ne	ne	459	ne	ne	397
Salish Kootenai C.	596	382	658	1,019	1,042	1,399 i	1,186	732	781	963	766	394

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Stonehill C.	597	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	393
Fairfield U.	598	372	401	379 i	354	810	339	435	982	1,172	563	365
Grambling State U.	599	993	1,515	1,298	1,077	1,065	915	974	846	778	558	359
Dine C.	600	ne	911 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	601	ne	106	179	340	523	264	643	206	201	191	342
Oregon Institute of Technology	602	ne	193	ne	ne	ne	63	1,268	694 i	217	437 i	326
Wheaton C., Wheaton	603	ne	585	114	ne	168	162	ne	70	50	301	324
Marshall B. Ketchum U.	604	ne	ne	ne	ne	48	224	375	368 i	354 i	336 i	323 i
Gettysburg C.	605	524	266	ne	ne	ne	ne	ne	597	901	841	320
Merrimack C.	606	ne	ne	ne	ne	ne	ne	ne	ne	353	ne	306
Weber State U.	606	338	537	152	ne	ne	ne	ne	ne	ne	ne	306
Lawrence Technological U.	608	2,809	2,425	1,106	985	739	971	326	569	457	294	296
U. Wisconsin-Platteville	609	46	50 i	ne	ne	287 i	266 i	ne	299 i	ne	294 i	292 i
C. Wooster	610	249	512	183	ne	404	386 i	ne	736	744	456	283
U. Houston-Downtown	611	905	1,178	1,824	464	496	773	620	828	703	130	274
Albion C.	612	ne	113	ne	ne	ne	ne	ne	210	114	180	272
Andrews U.	613	280	77	ne	ne	ne	ne	ne	ne	ne	278	263
Pepperdine U.	614	199	172	428	465	586	724	966	343	289	399	261
Franklin W. Olin C. of Engineering	615	ne	666	1,090	946	1,050	1,103	782	473	425	111	255
Florida Polytechnic U.	616	na	na	na	na	na	203	ne	ne	ne	338	252

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Bradley U.	617	512	554	889	899	587	306	955	434	278	515	235
St. Olaf C.	618	1,235	843	1,220	955	760	668	849	769	287	240	227
Willamette U.	619	441	419	911	646	672	730	757	739	807	435	222
U. Michigan, Flint	620	32	181	ne	ne	ne	ne	ne	219	159	122	220
New Jersey City U.	621	132	ne	ne	ne	ne	ne	ne	1,600	3,255	1,120	217
U. California, Office of the President	621	121	483	1,048	599	248	181	295	288	343	319	217
U. Minnesota, Morris	623	243	276	ne	257	262	306	428	294	ne	195	213
U. of Mary Washington	624	ne	563 i	79	ne	ne	187	ne	ne	46	128	207
Rhode Island School of Design	625	ne	289	ne	ne	ne	252	274 i	269 i	212 i	215 i	206 i
Salisbury U.	626	422	586	360	674	1,155	967	841	806	369	658	204
California Lutheran U.	627	ne	171	ne	ne	ne	ne	ne	ne	ne	159	203
Heidelberg U.	628	ne	266 i	ne	349	199	272	294	428	163	164	188
St. Bonaventure U.	629	128	587	155	ne	ne	ne	159	ne	ne	ne	187
U. North Georgia	630	ne	ne	ne	ne	ne	ne	ne	257	198	222	183
Framingham State U.	631	ne	ne	ne	ne	ne	ne	ne	4	17	ne	179
Eastern Connecticut State U.	632	ne	0	ne	ne	6	17	27	19	36	181	177
Dickinson C.	633	445	616	685	467	345	402	394	380	ne	226	154
U. San Francisco	634	335	313	1,842	858	738	503	280	405	310	198	148
St. Cloud State U.	635	501	380	215	420	797	1,299	561	554	494	515	141
Azusa Pacific U.	636	ne	970	609 i	ne	ne	323	606	334	199	125	128
Alaska Pacific U.	637	283	349	ne	ne	ne	532	322	252	217	304	121

TABLE 79

Federally financed higher education R&D expenditures in science and engineering fields, ranked by FY 2020 R&D expenditures: FYs 2010–20

(Dollars in thousands)

Institution	Rank	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Monmouth U.	638	2,190	1,873	714	ne	635	ne	173	ne	ne	120	110
Elon U.	639	ne	40	111	161	143	92	194	213	285	264	106
Columbus State U.	640	ne	1,716	11	ne	ne	ne	ne	ne	ne	ne	93
Colorado C.	641	412	362	307	269	511	570	320	585	259	202	91
Emerson C.	642	ne	ne	ne	ne	ne	410	347	343	299	106	84
Hamilton C.	643	812	1,085	1,070	848	413	202	173	48	78	88	61
Roseman U. of Health Sciences	644	ne	0	ne	ne	131	0	0	0	18	37 i	56
C. of Saint Benedict	645	ne	0	ne	72	71	53	38	44	47	45 i	43 i
Jacksonville State U.	646	133	265	ne	ne	ne	13	307	209 i	199	67	30
Niagara U.	647	162	150	118	28	0	4	0	0	125	114	18
La Salle U.	648	246	277	114	114	102	82	82 i	ne	ne	ne	14
U. South Florida, Sarasota-Manatee	649	0	0	ne	ne	0	0	0	0	0	0	10
La Sierra U.	650	ne	17	ne	ne	0	45	12	23	43	32	4
All other surveyed institutions	-	809,654	925,962	882,240	814,406	605,031	593,908	598,624	619,407	656,879	38,130	0

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

[a] Johns Hopkins University includes the Applied Physics Laboratory, with $1,845,654 thousand in federally financed R&D expenditures in science and engineering fields in FY 2020.

[b] The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

[c] The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Note(s):
Institutions reporting zero expenditures in ranked total for FY 2020 are not listed in this table. Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems. For a complete list of campuses that belong to a larger university or system and their aggregate R&D expenditures, see table 6.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 80

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–20

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
United States	58,387,551	61,988,017	62,198,981	63,354,376	63,766,242	64,935,600	67,634,588	70,846,712	74,384,893	78,669,198	81,260,563
Alabama	829,363	878,622	804,713	807,180	784,855	868,160	912,302	942,186	986,864	1,055,431	1,110,640
Alaska	141,190	140,736	135,751	133,170	168,948	157,565	163,092	171,166	161,208	165,930	174,978
Arizona	901,697	951,223	987,123	1,013,898	987,348	1,031,313	1,072,623	1,139,852	1,284,772	1,346,997	1,401,055
Arkansas	255,537	270,576	275,503	278,640	268,551	278,259	284,160	288,722	311,100	331,290	343,986
California	7,579,752	7,927,260	8,102,898	8,056,392	8,121,682	8,330,954	8,558,740	8,886,352	9,771,478	10,111,852	10,522,381
Colorado	1,128,509	1,240,906	1,249,413	1,200,521	1,184,397	1,226,205	1,326,252	1,402,890	1,486,702	1,539,154	1,569,639
Connecticut	866,600	922,694	924,773	1,041,810	1,029,748	1,062,809	1,143,663	1,210,466	1,251,620	1,352,731	1,370,202
Delaware	161,927	178,496	176,743	187,730	187,295	183,868	189,768	195,591	198,476	223,447	237,870
District of Columbia	430,944	446,448	455,063	463,042	487,260	488,789	483,863	524,970	547,181	575,707	590,359
Florida	1,778,300	1,896,576	1,930,189	1,921,895	2,019,460	2,080,940	2,217,780	2,348,688	2,285,505	2,366,990	2,393,608
Georgia	1,611,447	1,657,919	1,711,596	1,789,112	1,850,346	1,918,019	2,029,544	2,177,129	2,283,980	2,470,705	2,574,883
Hawaii	314,652	325,915	328,168	338,992	330,584	328,698	314,431	297,425	294,453	298,641	295,641
Idaho	122,754	139,392	142,976	139,444	137,825	142,954	150,043	156,152	161,196	157,439	162,335
Illinois	2,146,061	2,264,226	2,269,727	2,407,183	2,238,266	2,284,059	2,265,419	2,369,632	2,438,295	2,577,826	2,637,507
Indiana	1,048,218	1,141,830	1,150,327	1,200,697	1,169,076	1,191,841	1,235,217	1,294,203	1,331,646	1,511,310	1,608,701
Iowa	689,831	705,684	695,465	693,052	743,656	726,233	774,017	786,287	838,401	837,341	829,217
Kansas	460,629	466,851	479,721	499,788	485,562	489,955	478,843	502,399	540,529	601,894	635,019
Kentucky	538,189	555,579	546,893	515,406	505,815	499,960	526,377	561,729	576,050	589,110	614,163
Louisiana	657,569	667,523	653,885	632,537	627,547	609,102	630,012	633,514	687,619	728,488	737,195
Maine	118,832	129,236	118,589	103,373	120,628	98,607	97,680	120,471	126,229	141,775	141,242
Maryland	3,094,055	3,366,663	3,308,014	3,376,440	3,514,719	3,704,962	3,744,025	3,967,074	4,112,572	4,555,760	4,660,788
Massachusetts	2,628,804	2,806,845	3,010,696	3,246,125	3,218,358	3,406,239	3,521,012	3,631,981	3,717,256	3,986,389	4,036,262
Michigan	1,903,476	2,029,656	2,076,947	2,134,096	2,115,363	2,202,000	2,320,601	2,497,196	2,604,342	2,712,101	2,694,168
Minnesota	802,840	866,304	840,731	869,824	885,306	882,516	912,843	917,633	951,455	1,011,132	1,037,129
Mississippi	418,235	431,365	437,775	385,916	378,750	381,383	412,153	437,120	438,422	493,183	475,626
Missouri	964,192	984,357	1,055,960	1,028,703	1,014,509	1,046,359	1,112,509	1,146,069	1,213,421	1,318,262	1,383,261
Montana	195,619	182,326	184,754	175,054	172,201	171,530	184,756	216,170	214,221	250,102	262,328
Nebraska	383,260	393,395	419,164	419,565	428,017	435,767	447,703	478,198	498,045	534,272	545,367
Nevada	170,989	160,254	149,323	147,079	146,056	148,339	172,933	185,836	221,608	241,651	252,741
New Hampshire	298,650	341,848	349,891	335,518	337,909	336,857	361,834	413,173	422,319	442,652	432,458
New Jersey	1,022,690	1,091,890	1,060,469	1,120,119	1,081,018	1,048,622	1,067,318	1,137,993	1,231,456	1,227,813	1,302,242
New Mexico	407,429	400,121	390,548	390,745	400,180	377,543	352,296	358,025	361,605	357,866	368,423
New York	4,782,174	5,105,083	5,157,872	5,327,470	5,450,410	5,449,862	5,817,824	6,048,744	6,271,932	6,714,700	6,779,528
North Carolina	2,422,947	2,603,702	2,618,572	2,669,329	2,741,270	2,744,906	2,847,296	2,991,666	3,104,305	3,275,092	3,257,648
North Dakota	202,626	209,430	213,666	212,705	215,551	212,524	221,251	241,188	240,568	246,564	251,914

TABLE 80

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–20

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Ohio	1,963,559	2,107,830	2,017,370	2,048,353	2,043,780	2,017,358	2,055,047	2,164,145	2,249,451	2,382,832	2,396,135
Oklahoma	383,110	418,373	412,978	384,729	391,926	392,480	428,939	440,486	455,130	472,673	538,006
Oregon	663,378	701,228	680,956	667,974	670,105	679,739	701,813	731,137	771,348	812,126	846,674
Pennsylvania	3,026,823	3,201,566	3,125,789	3,237,847	3,210,166	3,249,295	3,710,218	3,948,483	4,162,865	4,397,493	4,562,156
Rhode Island	287,708	330,272	335,689	320,663	379,144	376,956	330,514	304,898	341,552	357,966	364,094
South Carolina	616,972	576,881	563,599	567,300	565,820	571,747	605,162	617,864	618,354	615,442	653,027
South Dakota	126,562	132,295	123,383	113,284	100,343	97,179	102,269	108,230	111,203	113,692	105,707
Tennessee	879,994	952,398	968,317	973,486	1,079,491	1,022,308	1,037,952	1,133,255	1,209,155	1,244,917	1,297,620
Texas	4,220,820	4,427,560	4,413,601	4,585,482	4,658,686	4,794,484	4,994,430	5,192,867	5,312,828	5,600,114	6,186,572
Utah	551,607	614,316	608,199	673,095	674,070	715,106	537,012	540,493	784,478	862,465	912,369
Vermont	132,519	136,623	119,802	120,178	113,711	118,957	119,665	121,257	131,483	138,530	181,505
Virginia	1,134,387	1,300,258	1,283,852	1,323,095	1,287,075	1,302,589	1,356,482	1,436,045	1,540,781	1,665,152	1,766,317
Washington	1,304,992	1,438,349	1,376,467	1,402,118	1,399,577	1,431,158	1,525,348	1,578,678	1,654,786	1,674,824	1,690,536
West Virginia	178,435	195,952	189,225	184,992	184,291	187,867	188,571	198,131	200,660	202,161	206,447
Wisconsin	1,230,932	1,338,580	1,330,338	1,278,050	1,272,075	1,227,739	1,336,139	1,402,060	1,439,560	1,559,088	1,639,447
Wyoming	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne
Guam	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674
Puerto Rico	114,982	152,435	141,188	123,784	117,258	121,299	116,936	108,032	98,665	113,669	105,413
Virgin Islands	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622

ne = not eligible; no institutions within the state met the criteria for inclusion.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Alabama								
Public								
Auburn U., Montgomery	430		227		325		312	
U. West Alabama	596		467		462		465	
Private								
Alabama C., Osteopathic Medicine	ne		ne		370		303	
Oakwood U.	866	i	766	i	666		538	
Arkansas								
Public								
Arkansas Tech U.	503		1,022		961		856	
Southern Arkansas U.	520		359		329		275	
Private								
Arkansas C. of Health Education	ne		ne		ne		900	
Hendrix C.	480		840		902		649	
Ouachita Baptist U.	ne		368		363	i	345	i
Philander Smith C.	378		426		219		208	i
California								
Private								
Claremont School of Theology	248		390		431		443	i
Dominican U. California	914		840		828	i	786	i
Fielding Graduate U.	ne		817		852		1,073	
International Technological U.	695		620		515	i	410	
Palo Alto U.	1,459		964		290		417	
Pitzer C.	837		808		468		313	
Point Loma Nazarene U.	168		350		265		237	
Westmont C.	261		240		376		211	
Whittier C.	455		344		388		248	
Colorado								
Public								
Colorado Mesa U.	353		329		372		452	
Metropolitan State U. of Denver	ne		939		574		496	
Western Colorado U.	ne		491		460		571	
Private								
Regis U.	661		780		706		311	
Connecticut								
Public								
U.S. Coast Guard Academy	644		829		708		398	
Western Connecticut State U.	414		646		713		539	
Private								
Hartford Seminary	420		ne		ne		345	
Quinnipiac U.	1,036	i	994	i	980	i	930	i
Sacred Heart U.	ne		ne		563		1,298	
U. Bridgeport	726		603		384	i	164	
Florida								
Public								
New C. Florida	998		875		962		999	
Private								
Barry U.	450		436		295		237	
Bethune-Cookman U.	1,185	i	1,137		735		636	

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Eckerd C.	809		495		435		406	
Jacksonville U.	649		237		365		459	
Keiser U.	729		480		450		423	
Rollins C.	543		668		626		414	
St. Thomas U., Miami Gardens	260		184		268		160	
Stetson U.	334		393		476		670	
U. Tampa	390		313		489		559	
Georgia								
Public								
Clayton State U.	ne		ne		330		346	
Georgia C. and State U.	275		154		548		270	
Georgia Gwinnett C.	492		522		610		478	
Middle Georgia State U.	ne		ne		250		335	
U. West Georgia	510		397		508		483	
Valdosta State U.	384		444		424		496	
Private								
Agnes Scott C.	313		287		229		152	
Berry C.	409		301		553		646	
Life U.	179		176		207		429	
Hawaii								
Public								
U. Hawaii, Maui C.	ne		284		833		1,033	
Idaho								
Public								
Lewis-Clark State C.	378		627		599		660	
Private								
Northwest Nazarene U.	696		686		447		408	
Illinois								
Public								
Chicago State U.	1,861		1,154		898		980	
Eastern Illinois U.	901		743		700		540	
Governors State U.	655		698		735		508	
Private								
Augustana C.	255		284		237		205	
Elmhurst U.	ne		154		224		209	
Illinois C. of Optometry	329		179		326		478	
Lake Forest C.	457	i	459		416	i	372	
Indiana								
Public								
Indiana U., Kokomo	335		405		393		483	
Indiana U., Northwest	355		200		509		488	
Indiana U., South Bend	1,039		958		968		1,249	
Indiana U., Southeast	505		588		557		582	
U. Southern Indiana	ne		298		362		300	
Private								
Butler U.	525		938		680		679	
DePauw U.	327		308		308		253	
Earlham C.	603		451		456		165	
Indiana Wesleyan U.	615		418		706		316	

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Manchester U.	469		551		541		286	
Taylor U.	212		205		225		232	
U. Evansville	389		268		350		245	
Valparaiso U.	1,956	i	870		763		718	
Iowa								
Private								
Coe C.	546		623		699		561	
Cornell C.	510		423		397	i	370	
Dordt U.	641		848		920		1,106	
Drake U.	1,215		1,103		865		1,201	
Luther C.	838		685		451		365	
Kansas								
Public								
Emporia State U.	367		732		777		594	
Kentucky								
Private								
Centre C.	498		495		506		376	
Louisiana								
Public								
Louisiana State U., Shreveport	705		707		572		494	
McNeese State U.	1,467		416		370		585	
Nicholls State U.	866		496		738		650	
Southern U., New Orleans	264		597		596		310	
Private								
Loyola U., New Orleans	541		461		443		338	
Maine								
Public								
U. Maine Farmington	ne		ne		526	i	961	i
Maryland								
Public								
Coppin State U.	230		233		243		202	
St. Mary's C. Maryland	662		295		369		556	
Private								
Goucher C.	336		328		450		245	
Loyola U., Maryland	784		614		663		672	
Maryland Institute C. of Art	499		624		494		618	
Massachusetts								
Public								
Bridgewater State U.	393		190		331		345	
Private								
Bentley U.	562		620		465		777	
C. of the Holy Cross	673		612		477		321	
Hampshire C.	585		348		225		212	
Hult International Business School	1,014	i	973	i	959	i	910	i
Lasell U.	ne		ne		163		189	
MCPHS U.	720		600		606		473	
Simmons U.	306		386		472		604	
Western New England U.	610		479		283		505	
Wheaton C., Norton	223		185		240		281	

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Michigan								
Public								
Ferris State U.	728		597		366		394	
Lake Superior State U.	1,067		633		830		935	
Private								
Kalamazoo C.	671		644	i	635	i	603	i
Minnesota								
Public								
Metropolitan State U.	ne		ne		150	i	156	i
Minnesota State U., Moorhead	604		327		209		169	
U. Minnesota, Crookston	ne		449		282		210	
U. Minnesota, Rochester	617		636		639		733	
Winona State U.	349		462		480		516	
Private								
Augsburg U.	1,141		1,051		991		883	
Bethany Global U.	ne		ne		ne		150	i
Concordia C., Moorhead	ne		ne		ne		275	
Gustavus Adolphus C.	641		597		808		843	
Saint Mary's U. Minnesota	153		680		603		610	
St. Catherine U.	605		814		267		963	
Mississippi								
Public								
Delta State U.	483		489		204		592	
Mississippi Valley State U.	806		944		986		653	
Private								
Millsaps C.	839		552		243		228	
Missouri								
Public								
Missouri Western State U.	286		500		176		306	
Northwest Missouri State U.	586		234		192		239	
Southeast Missouri State U.	604		511		372		232	
Truman State U.	374		332		285		296	
U. Central Missouri	289		315		415		401	
Private								
A. T. Still U.	782		1,492		644		656	
Graduate School of the Stowers Institute for Medical Research	ne		ne		ne		416	
Kansas City U. of Medicine and Biosciences	896		251		245		235	
Montana								
Public								
Montana State U., Billings	573		593		545		399	
Montana State U., Northern	481		258		236		322	
Nevada								
Public								
C. Southern Nevada	ne		211		232		194	
Nevada State C.	ne		796		701		561	
New Hampshire								
Public								
Plymouth State U.	1,131		990		880		664	
New Jersey								

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Public								
Ramapo C. New Jersey	383		401		351		441	
Private								
Fairleigh Dickinson U.	643		917		791		656	
Rider U.	1,565		1,363		228		170	
New Mexico								
Public								
Eastern New Mexico U., Portales	492		341		292		358	
Northern New Mexico C.	ne		844		581		404	
New York								
Public								
SUNY, C. Cortland	611		463		527		255	
SUNY, C. Old Westbury	ne		ne		ne		150	i
SUNY, Cobleskill	ne		ne		ne		625	
SUNY, Delhi	169		280		634		726	
SUNY, Farmingdale State C.	ne		ne		ne		589	
SUNY, New Paltz	578		668		494		330	
SUNY, Oneonta	397		834		623		214	
Private								
Adelphi U.	347		330		359		369	i
Bard C.	228		234		235		242	
Canisius C.	1,546		1,069		950		1,094	
Cooper Union for the Advancement of Science and Art	341		418		710		501	
D'Youville C.	ne		ne		383		382	
Iona C.	166		ne		ne		239	
Le Moyne C.	ne		ne		163		167	i
Marist C.	692		613		320		156	
New York Law School	233		257		173		225	
Northeast C. of Health Sciences	348		395		334		234	
Sarah Lawrence C.	ne		269		532		355	
Siena C.	1,425		941		944		884	
St. Lawrence U.	639		280		194		441	
Touro C.	679		546		470		439	
Utica C.	370		420		598		549	
North Carolina								
Public								
U. North Carolina, Pembroke	554		814		620		344	
North Dakota								
Public								
Mayville State U.	262		267		292		509	
Minot State U.	436		418		251		253	
Private								
United Tribes Technical C.	ne		ne		379		976	
Ohio								
Private								
Denison U.	ne		585	i	577		727	
John Carroll U.	367		370		658		1,865	
Ohio Northern U.	399		405		316		348	
Ohio Wesleyan U.	405		509		325		323	

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Wittenberg U.	270		273		267		297	
Oklahoma								
Public								
East Central U.	493		368		310	i	251	
Northeastern State U.	475		245		432		406	
Southwestern Oklahoma State U.	274		527		504		484	
Oregon								
Public								
Eastern Oregon U.	493		562		472		172	
Southern Oregon U.	776		660		424		493	
Private								
Linfield C.	249		326		464		319	
U. Portland	934		1,061		942		737	
Pennsylvania								
Public								
Bloomsburg U. Pennsylvania	797		727		734		735	
East Stroudsburg U. Pennsylvania	324		813		677		797	
Kutztown U. Pennsylvania	463		415		464		472	
Millersville U. Pennsylvania	673		862		782		402	
Pennsylvania State U., Altoona	870		708		680		714	
Pennsylvania State U., Berks	342		562		273		372	
Pennsylvania State U., Lehigh Valley	ne		ne		ne		150	
Shippensburg U. Pennsylvania	727		315		347		204	
Slippery Rock U. Pennsylvania	ne		218		213		390	
U.S. Army War C.	ne		ne		4,418	i	4,500	
Private								
Allegheny C.	1,243		1,069		632		449	
Arcadia U.	566		430		522		1,072	
Bryn Athyn C.	255		420		305		432	
Gannon U.	424		409		555		351	
Geisinger Commonwealth School of Medicine	ne		ne		ne		150	i
Juniata C.	421		605		560		937	
Lake Erie C. of Osteopathic Medicine	639		704		565		472	
Moravian C.	184		271		273		309	
Muhlenberg C.	721		472		539		398	
Saint Francis U.	ne		650		829		878	
Salus U.	1,566		1,286		854		650	
Susquehanna U.	971		511		368		496	
U. Scranton	314		290		450		595	
Ursinus C.	982		925		768		497	
Widener U., Chester	541		534		764		586	
Wilkes U.	598		653		549		968	
Rhode Island								
Private								
Bryant U.	316		347		353		302	
Salve Regina U.	283		419		495		591	
South Carolina								
Public								
Francis Marion U.	202		258		362		216	

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
U. South Carolina Upstate	203		ne		257		437	
U. South Carolina, Beaufort	555		497		532		599	
Private								
Coker U.	ne		ne		434		485	
Converse C.	175		235		317		185	
South Dakota								
Public								
Northern State U.	ne		248		225		240	
Oglala Lakota C.	659		692		683		516	
Private								
Augustana U.	1,212		1,170		841		1,038	
Tennessee								
Public								
U. Tennessee, Martin	347		338		363		305	
Private								
Sewanee: U. of the South	714		676		867		864	
Southern C. of Optometry	272		231		212		446	
Texas								
Public								
Angelo State U.	807		774		815		798	
Texas A&M U.-Central Texas	1,348		1,122		428		623	
Texas A&M U.-San Antonio	426		333		308		567	
U. Houston system administration	1,099		971		965		514	
Private								
Abilene Christian U.	634		581		979		2,631	
Austin C.	365		384		376		342	
LeTourneau U.	805		737		239		271	
Southwestern U.	446		386		334		261	
St. Mary's U., San Antonio	692		622		865		374	
Texas Chiropractic C.	224	i	215	i	212	i	201	i
Utah								
Public								
Southern Utah U.	657		763		812		955	
Utah Valley U.	348		281		151		336	
Vermont								
Private								
Norwich U.	878		867		992		749	
Virginia								
Public								
Longwood U.	ne		388		353		368	
Radford U.	653		604		879		774	
U. Virginia's C. Wise	ne		ne		ne		2,434	
Virginia Military Institute	534		499		727		712	
Private								
Eastern Mennonite U.	257		299		209		236	
Ferrum C.	ne		ne		184		150	
Roanoke C.	539		954		826		606	
Washington and Lee U.	ne		ne		241		214	
Washington								

TABLE 81

Higher education R&D expenditures at institutions in the short form survey population in FY 2020, by state, institutional control, and institution: FYs 2017–20

(Dollars in thousands)

State, institutional control, and institution	2017		2018		2019		2020	
Public								
Evergreen State C.	409		486	i	563		390	
Private								
Bastyr U.	464		232		389		250	
Gonzaga U.	618		396		187		506	
Pacific Lutheran U.	238		257		342		449	
Pacific Northwest U. of Health Sciences	427		829		833		808	
Saint Martin's U.	ne		ne		ne		201	
Seattle Pacific U.	996		870		724		643	
Whitworth U.	792		806		421		660	
West Virginia								
Public								
Bluefield State C.	458		443		595		485	
West Liberty U.	ne		688		908		738	
Private								
Future Generations U.	ne		ne		286		271	i
U. Charleston	ne		ne		ne		150	i
Wheeling U.	400		431		328		248	
Wisconsin								
Public								
U. Wisconsin-Parkside	ne		168		213		169	
U. Wisconsin-Stout	821		902		668		555	
U. Wisconsin-Whitewater	782		685		757		736	
Private								
Alverno C.	213		219		216		237	
Concordia U., Wisconsin	493		352		248		293	
Lawrence U.	378		439		508		423	
Northland C.	ne		ne		ne		1,101	
St. Norbert C.	281		411		354		304	
American Samoa								
Public								
American Samoa Community C.	975		1,158		860		1,536	
Puerto Rico								
Public								
U. Puerto Rico, Aguadilla	ne		512		465		562	
U. Puerto Rico, Ponce	744		698	i	651		663	i
Private								
Carlos Albizu U.	ne		ne		ne		3,679	
Pontifical Catholic U. Puerto Rico, Ponce	206		150		287		239	
San Juan Bautista School of Medicine	570		754		896		612	
U. Ana G. Mendez, Cupey	5,568		3,926		624		818	

i = imputed. ne = not eligible; institution did not meet the criteria for inclusion.

Note(s):
Institutions are included in the short form population if they reported less than $1 million in total R&D expenditures during the previous fiscal year. Institutions can move between the short form and standard form populations as their R&D expenditures increase or decrease; therefore, prior year amounts listed for some institutions may be represented in the aggregate totals for the standard form.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	138,876	5,768	8,239	45,796	3,329	18,372	3,703	19,231	3,815	6,551	24,072
Public	59,231	2,937	4,077	19,491	1,186	6,078	1,385	9,562	1,194	3,200	10,121
Private	79,645	2,831	4,162	26,305	2,143	12,294	2,318	9,669	2,621	3,351	13,951
Alabama	1,618	0	0	1,087	135	130	0	0	0	0	266
Public	777	0	0	568	89	0	0	0	0	0	120
Auburn U., Montgomery	312	0	0	103	89	0	0	0	0	0	120
U. West Alabama	465	0	0	465	0	0	0	0	0	0	0
Private	841	0	0	519	46	130	0	0	0	0	146
Alabama C., Osteopathic Medicine	303	0	0	303	0	0	0	0	0	0	0
Oakwood U.	538	0	0	216	46	130	0	0	0	0	146
Arkansas	3,233	0	10	1,657	188	293	563	28	44	285	165
Public	1,131	0	0	205	15	138	563	23	2	58	127
Arkansas Tech U.	856	0	0	177	0	86	557	0	2	25	9
Southern Arkansas U.	275	0	0	28	15	52	6	23	0	33	118
Private	2,102	0	10	1,452	173	155	0	5	42	227	38
Arkansas C. of Health Education	900	0	0	900	0	0	0	0	0	0	0
Hendrix C.	649	0	0	326	7	155	0	5	0	150	6
Ouachita Baptist U.	345 i	0 i	10 i	226 i	0 i	0 i	0 i	0 i	0 i	77 i	32 i
Philander Smith C.	208 i	0 i	0 i	0 i	166 i	0 i	0 i	0 i	42 i	0 i	0 i
California	4,138	162	32	889	21	180	430	1,281	15	410	718
Private	4,138	162	32	889	21	180	430	1,281	15	410	718
Claremont School of Theology	443 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	443 i
Dominican U. California	786 i	0 i	0 i	786 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Fielding Graduate U.	1,073	0	0	0	0	0	0	1,073	0	0	0
International Technological U.	410	0	0	0	0	0	0	0	0	410	0
Palo Alto U.	417	0	0	0	0	0	417	0	0	0	0
Pitzer C.	313	0	28	5	10	0	13	76	0	0	181
Point Loma Nazarene U.	237	162	4	0	0	0	0	56	15	0	0
Westmont C.	211	0	0	40	0	153	0	18	0	0	0
Whittier C.	248	0	0	58	11	27	0	58	0	0	94
Colorado	1,830	21	77	1,054	38	150	4	76	131	2	277
Public	1,519	16	77	855	36	97	0	73	131	2	232

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado Mesa U.	452	16	44	327	0	0	0	63	0	2	0
Metropolitan State U. of Denver	496	0	1	10	36	86	0	0	131	0	232
Western Colorado U.	571	0	32	518	0	11	0	10	0	0	0
Private	311	5	0	199	2	53	4	3	0	0	45
Regis U.	311	5	0	199	2	53	4	3	0	0	45
Connecticut	3,674	64	1	943	32	403	39	502	401	171	1,118
Public	937	30	0	435	0	249	6	68	0	0	149
U.S. Coast Guard Academy	398	30	0	0	0	241	0	47	0	0	80
Western Connecticut State U.	539	0	0	435	0	8	6	21	0	0	69
Private	2,737	34	1	508	32	154	33	434	401	171	969
Hartford Seminary	345	0	0	0	0	0	0	345	0	0	0
Quinnipiac U.	930 i	34 i	1 i	356 i	32 i	154 i	33 i	78 i	19 i	47 i	176 i
Sacred Heart U.	1,298	0	0	151	0	0	0	0	382	0	765
U. Bridgeport	164	0	0	1	0	0	0	11	0	124	28
Florida	4,963	88	1,103	1,852	133	462	20	345	24	12	924
Public	999	19	118	567	36	45	0	105	0	0	109
New C. Florida	999	19	118	567	36	45	0	105	0	0	109
Private	3,964	69	985	1,285	97	417	20	240	24	12	815
Barry U.	237	0	0	205	0	9	0	23	0	0	0
Bethune-Cookman U.	636	20	351	170	0	0	0	0	0	0	95
Eckerd C.	406	0	299	12	75	0	0	0	0	0	20
Jacksonville U.	459	0	257	202	0	0	0	0	0	0	0
Keiser U.	423	0	0	0	0	0	0	0	0	0	423
Rollins C.	414	21	0	18	0	214	5	40	24	0	92
St. Thomas U., Miami Gardens	160	17	0	77	22	27	0	0	0	0	17
Stetson U.	670	0	78	352	0	0	0	149	0	12	79
U. Tampa	559	11	0	249	0	167	15	28	0	0	89
Georgia	3,635	352	293	1,145	323	300	48	411	84	0	679
Public	2,408	351	293	556	269	236	15	222	76	0	390
Clayton State U.	346	0	0	0	0	13	0	0	68	0	265
Georgia C. and State U.	270	0	49	146	0	17	11	47	0	0	0
Georgia Gwinnett C.	478	72	0	128	114	140	4	6	8	0	6

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Georgia State U.	335	171	0	85	0	0	0	79	0	0	0
U. West Georgia	483	0	112	172	129	41	0	18	0	0	11
Valdosta State U.	496	108	132	25	26	25	0	72	0	0	108
Private	1,227	1	0	589	54	64	33	189	8	0	289
Agnes Scott C.	152	0	0	0	28	61	29	5	0	0	29
Berry C.	646	1	0	160	26	3	4	184	8	0	260
Life U.	429	0	0	429	0	0	0	0	0	0	0
Hawaii	1,033	470	0	425	0	0	0	47	0	0	91
Public	1,033	470	0	425	0	0	0	47	0	0	91
U. Hawaii, Maui C.	1,033	470	0	425	0	0	0	47	0	0	91
Idaho	1,068	38	0	457	0	53	0	331	0	189	0
Public	660	0	0	329	0	0	0	331	0	0	0
Lewis-Clark State C.	660	0	0	329	0	0	0	331	0	0	0
Private	408	38	0	128	0	53	0	0	0	189	0
Northwest Nazarene U.	408	38	0	128	0	53	0	0	0	189	0
Illinois	3,292	0	5	1,581	8	1,078	35	196	0	0	389
Public	2,028	0	0	938	2	932	4	124	0	0	28
Chicago State U.	980	0	0	0	0	869	0	111	0	0	0
Eastern Illinois U.	540	0	0	430	2	63	4	13	0	0	28
Governors State U.	508	0	0	508	0	0	0	0	0	0	0
Private	1,264	0	5	643	6	146	31	72	0	0	361
Augustana C.	205	0	4	65	0	62	1	3	0	0	70
Elmhurst U.	209	0	0	0	0	0	0	23	0	0	186
Illinois C. of Optometry	478	0	0	478	0	0	0	0	0	0	0
Lake Forest C.	372	0	1	100	6	84	30	46	0	0	105
Indiana	5,996	261	23	1,984	172	1,083	229	321	350	139	1,434
Public	3,102	116	10	741	17	376	205	190	350	59	1,038
Indiana U., Kokomo	483	0	0	22	0	16	8	47	1	0	389
Indiana U., Northwest	488	5	1	255	1	21	9	65	41	0	90
Indiana U., South Bend	1,249	111	3	269	0	307	173	19	268	0	99
Indiana U., Southeast	582	0	0	27	0	31	0	59	40	0	425
U. Southern Indiana	300	0	6	168	16	1	15	0	0	59	35

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	2,894	145	13	1,243	155	707	24	131	0	80	396
Butler U.	679	3	0	383	0	112	1	28	0	0	152
DePauw U.	253	41	0	64	24	75	4	12	0	0	33
Earlham C.	165	0	0	66	0	9	0	0	0	0	90
Indiana Wesleyan U.	316	1	0	107	0	91	11	44	0	0	62
Manchester U.	286	0	0	275	0	6	0	0	0	0	5
Taylor U.	232	100	0	48	5	20	1	25	0	10	23
U. Evansville	245	0	0	53	65	87	7	2	0	0	31
Valparaiso U.	718	0	13	247	61	307	0	20	0	70	0
Iowa	3,603	300	88	948	261	852	153	200	0	47	754
Private	3,603	300	88	948	261	852	153	200	0	47	754
Coe C.	561	0	0	4	10	448	0	28	0	0	71
Cornell C.	370	5	59	136	0	30	97	26	0	6	11
Dordt U.	1,106	288	0	395	241	29	1	100	0	41	11
Drake U.	1,201	4	0	347	2	195	45	24	0	0	584
Luther C.	365	3	29	66	8	150	10	22	0	0	77
Kansas	594	0	0	381	0	72	12	110	0	0	19
Public	594	0	0	381	0	72	12	110	0	0	19
Emporia State U.	594	0	0	381	0	72	12	110	0	0	19
Kentucky	376	19	0	97	31	56	4	38	39	14	78
Private	376	19	0	97	31	56	4	38	39	14	78
Centre C.	376	19	0	97	31	56	4	38	39	14	78
Louisiana	2,377	387	140	776	0	171	36	322	0	186	359
Public	2,039	387	140	765	0	166	36	0	0	186	359
Louisiana State U., Shreveport	494	316	0	112	0	64	0	0	0	0	2
McNeese State U.	585	0	0	105	0	0	36	0	0	87	357
Nicholls State U.	650	0	0	548	0	102	0	0	0	0	0
Southern U., New Orleans	310	71	140	0	0	0	0	0	0	99	0
Private	338	0	0	11	0	5	0	322	0	0	0
Loyola U., New Orleans	338	0	0	11	0	5	0	322	0	0	0
Maine	961	32	85	402	23	112	25	62	19	0	201
Public	961	32	85	402	23	112	25	62	19	0	201

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures		Computer and information sciences		Geosciences, atmospheric sciences, and ocean sciences		Life sciences		Mathematics and statistics		Physical sciences		Psychology		Social sciences		Sciences nec		Engineering		All non-S&E fields	
U. Maine Farmington	961		32	i	85	i	402	i	23	i	112	i	25	i	62	i	19	i	0	i	201	i
Maryland	2,293		110		97		426		70		350		87		197		107		33		816	
Public	758		49		97		109		60		194		68		132		0		33		16	
Coppin State U.	202		0		0		109		57		0		0		0		0		33		3	
St. Mary's C. Maryland	556		49		97		0		3		194		68		132		0		0		13	
Private	1,535		61		0		317		10		156		19		65		107		0		800	
Goucher C.	245		0		0		99		0		109		2		5		0		0		30	
Loyola U., Maryland	672		61		0		218		10		47		17		60		107		0		152	
Maryland Institute C. of Art	618		0		0		0		0		0		0		0		0		0		618	
Massachusetts	4,617		653		63		1,780		76		558		261		431		0		366		429	
Public	345		0		0		33		3		180		30		48		0		0		51	
Bridgewater State U.	345		0		0		33		3		180		30		48		0		0		51	
Private	4,272		653		63		1,747		73		378		231		383		0		366		378	
Bentley U.	777		0		0		623		4		60		0		90		0		0		0	
C. of the Holy Cross	321		0		0		193		0		116		12		0		0		0		0	
Hampshire C.	212		111		63		30		0		0		0		0		0		8		0	
Hult International Business School	910	i	45	i	0	i	461	i	40	i	0	i	42	i	99	i	0	i	0	i	223	i
Lasell U.	189		0		0		0		0		0		0		189		0		0		0	
MCPHS U.	473		0		0		296		0		0		177		0		0		0		0	
Simmons U.	604		458		0		65		0		5		0		5		0		0		71	
Western New England U.	505		39		0		79		29		0		0		0		0		358		0	
Wheaton C., Norton	281		0		0		0		0		197		0		0		0		0		84	
Michigan	1,932		18		0		1,412		49		119		24		74		0		82		154	
Public	1,329		0		0		1,148		36		33		0		13		0		82		17	
Ferris State U.	394		0		0		328		36		13		0		0		0		0		17	
Lake Superior State U.	935		0		0		820		0		20		0		13		0		82		0	
Private	603		18		0		264		13		86		24		61		0		0		137	
Kalamazoo C.	603	i	18	i	0	i	264	i	13	i	86	i	24	i	61	i	0	i	0	i	137	i
Minnesota	5,508		5		391		1,887		168		1,555		18		418		3		49		1,014	
Public	1,784		5		37		986		139		132		8		184		3		49		241	
Metropolitan State U.	156	i	5	i	0	i	113	i	2	i	12	i	3	i	7	i	0	i	0	i	14	i
Minnesota State U., Moorhead	169		0		18		0		0		0		4		0		1		0		146	

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Minnesota, Crookston	210	0	0	11	137	0	0	20	0	0	42
U. Minnesota, Rochester	733	0	0	694	0	0	0	0	0	0	39
Winona State U.	516	0	19	168	0	120	1	157	2	49	0
Private	3,724	0	354	901	29	1,423	10	234	0	0	773
Augsburg U.	883	0	198	46	0	136	0	0	0	0	503
Bethany Global U.	150 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	150 i
Concordia C., Moorhead	275	0	0	115	0	160	0	0	0	0	0
Gustavus Adolphus C.	843	0	156	42	29	493	10	60	0	0	53
Saint Mary's U. Minnesota	610	0	0	0	0	610	0	0	0	0	0
St. Catherine U.	963	0	0	698	0	24	0	174	0	0	67
Mississippi	1,473	7	375	336	10	64	9	23	222	406	21
Public	1,245	6	358	234	0	17	0	12	221	397	0
Delta State U.	592	0	358	234	0	0	0	0	0	0	0
Mississippi Valley State U.	653	6	0	0	0	17	0	12	221	397	0
Private	228	1	17	102	10	47	9	11	1	9	21
Millsaps C.	228	1 i	17 i	102 i	10 i	47 i	9 i	11 i	1 i	9 i	21 i
Missouri	2,781	3	0	1,976	111	95	136	13	0	96	351
Public	1,474	3	0	674	111	95	132	13	0	96	350
Missouri Western State U.	306	0	0	185	0	0	121	0	0	0	0
Northwest Missouri State U.	239	0	0	0	107	0	0	0	0	0	132
Southeast Missouri State U.	232	0	0	122	0	6	0	2	0	96	6
Truman State U.	296	3	0	141	4	85	11	11	0	0	41
U. Central Missouri	401	0	0	226	0	4	0	0	0	0	171
Private	1,307	0	0	1,302	0	0	4	0	0	0	1
A. T. Still U.	656	0	0	656	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	416	0	0	416	0	0	0	0	0	0	0
Kansas City U. of Medicine and Biosciences	235	0	0	230	0	0	4	0	0	0	1
Montana	721	0	0	365	0	137	0	0	0	121	98
Public	721	0	0	365	0	137	0	0	0	121	98
Montana State U., Billings	399	0	0	301	0	0	0	0	0	0	98
Montana State U., Northern	322	0	0	64	0	137	0	0	0	121	0

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Nevada	755	0	92	256	0	329	0	29	3	0	46
Public	755	0	92	256	0	329	0	29	3	0	46
C. Southern Nevada	194	0	10	170	0	10	0	0	3	0	1
Nevada State C.	561	0	82	86	0	319	0	29	0	0	45
New Hampshire	664	0	450	136	0	0	0	54	0	0	24
Public	664	0	450	136	0	0	0	54	0	0	24
Plymouth State U.	664	0	450	136	0	0	0	54	0	0	24
New Jersey	1,267	410	35	27	83	29	316	340	0	0	27
Public	441	118	0	0	27	0	7	274	0	0	15
Ramapo C. New Jersey	441	118	0	0	27	0	7	274	0	0	15
Private	826	292	35	27	56	29	309	66	0	0	12
Fairleigh Dickinson U.	656	285	6	0	0	0	309	53	0	0	3
Rider U.	170	7	29	27	56	29	0	13	0	0	9
New Mexico	762	19	3	330	0	0	0	20	8	380	2
Public	762	19	3	330	0	0	0	20	8	380	2
Eastern New Mexico U., Portales	358	0	0	330	0	0	0	20	0	6	2
Northern New Mexico C.	404	19	3	0	0	0	0	0	8	374	0
New York	9,166	928	490	2,038	253	1,500	190	411	1,041	717	1,598
Public	2,889	276	36	735	72	236	12	63	38	677	744
SUNY, C. Cortland	255	0	7	193	0	28	0	12	0	0	15
SUNY, C. Old Westbury	150 i	6 i	0 i	74 i	4 i	15 i	4 i	12 i	0 i	0 i	35 i
SUNY, Cobleskill	625	0	0	0	0	0	0	0	30	574	21
SUNY, Delhi	726	0	0	152	0	0	0	0	0	0	574
SUNY, Farmingdale State C.	589	270	0	153	15	52	0	0	0	75	24
SUNY, New Paltz	330	0	4	31	53	141	6	38	0	28	29
SUNY, Oneonta	214	0	25	132	0	0	2	1	8	0	46
Private	6,277	652	454	1,303	181	1,264	178	348	1,003	40	854
Adelphi U.	369 i	5 i	0 i	80 i	0 i	252 i	13 i	3 i	1 i	0 i	15 i
Bard C.	242	48	0	20	11	63	39	16	45	0	0
Canisius C.	1,094	0	0	0	0	259	0	0	835	0	0
Cooper Union for the Advancement of Science and Art	501	0	432	0	29	0	0	0	0	40	0

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
D'Youville C.	382	0	0	55	0	26	39	244	0	0	18
Iona C.	239	0	0	0	0	206	0	0	0	0	33
Le Moyne C.	167 i	5 i	0 i	3 i	4 i	7 i	0 i	0 i	25 i	0 i	123 i
Marist C.	156	58	0	69	0	12	0	4	13	0	0
New York Law School	225	0	0	0	0	0	0	0	0	0	225
Northeast C. of Health Sciences	234	0	0	234	0	0	0	0	0	0	0
Sarah Lawrence C.	355	12	0	260	9	24	3	30	0	0	17
Siena C.	884	273	0	94	31	346	5	22	20	0	93
St. Lawrence U.	441	217	22	18	54	24	24	20	12	0	50
Touro C.	439	0	0	361	0	0	0	0	52	0	26
Utica C.	549	34	0	109	43	45	55	9	0	0	254
North Carolina	344	0	0	0	0	344	0	0	0	0	0
Public	344	0	0	0	0	344	0	0	0	0	0
U. North Carolina, Pembroke	344	0	0	0	0	344	0	0	0	0	0
North Dakota	1,738	2	194	1,227	10	133	0	0	0	47	125
Public	762	2	0	514	10	111	0	0	0	0	125
Mayville State U.	509	0	0	273	0	111	0	0	0	0	125
Minot State U.	253	2	0	241	10	0	0	0	0	0	0
Private	976	0	194	713	0	22	0	0	0	47	0
United Tribes Technical C.	976	0	194	713	0	22	0	0	0	47	0
Ohio	3,560	9	461	330	36	468	114	434	23	122	1,563
Private	3,560	9	461	330	36	468	114	434	23	122	1,563
Denison U.	727	9	446	1	13	136	0	2	0	0	120
John Carroll U.	1,865	0	0	110	0	0	0	413	0	0	1,342
Ohio Northern U.	348	0	0	7	0	7	109	5	0	122	98
Ohio Wesleyan U.	323	0	0	212	23	60	5	0	23	0	0
Wittenberg U.	297	0	15	0	0	265	0	14	0	0	3
Oklahoma	1,141	182	174	473	3	149	2	48	91	0	19
Public	1,141	182	174	473	3	149	2	48	91	0	19
East Central U.	251	0	174	58	3	14	0	2	0	0	0
Northeastern State U.	406	174	0	156	0	46	0	22	0	0	8
Southwestern Oklahoma State U.	484	8	0	259	0	89	2	24	91	0	11

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oregon	1,721	0	15	91	27	426	81	415	159	260	247
Public	665	0	11	4	0	256	0	369	25	0	0
Eastern Oregon U.	172	0	11	4	0	131	0	26	0	0	0
Southern Oregon U.	493	0	0	0	0	125	0	343	25	0	0
Private	1,056	0	4	87	27	170	81	46	134	260	247
Linfield C.	319	0	0	20	0	85	7	29	0	0	178
U. Portland	737	0	4	67	27	85	74	17	134	260	69
Pennsylvania	17,976	471	827	5,737	659	1,387	184	4,953	351	819	2,588
Public	8,736	152	494	1,455	56	646	136	4,763	39	210	785
Bloomsburg U. Pennsylvania	735	18	161	328	16	22	122	36	0	0	32
East Stroudsburg U. Pennsylvania	797	17	0	333	0	0	3	3	0	0	441
Kutztown U. Pennsylvania	472	75	0	63	22	182	1	19	0	0	110
Millersville U. Pennsylvania	402	0	65	183	1	45	1	71	35	0	1
Pennsylvania State U., Altoona	714	35	0	254	15	106	0	73	0	128	103
Pennsylvania State U., Berks	372	3	0	84	0	188	0	15	0	82	0
Pennsylvania State U., Lehigh Valley	150	0	150	0	0	0	0	0	0	0	0
Shippensburg U. Pennsylvania	204	0	101	0	0	7	6	44	0	0	46
Slippery Rock U. Pennsylvania	390	4	17	210	2	96	3	2	4	0	52
U.S. Army War C.	4,500	0	0	0	0	0	0	4,500	0	0	0
Private	9,240	319	333	4,282	603	741	48	190	312	609	1,803
Allegheny C.	449	2	14	160	0	48	0	2	21	0	202
Arcadia U.	1,072	286	0	358	0	0	0	0	0	0	428
Bryn Athyn C.	432	0	0	70	0	0	0	51	0	6	305
Gannon U.	351	6	0	53	0	0	0	10	9	260	13
Geisinger Commonwealth School of Medicine	150 i	0 i	0 i	150 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Juniata C.	937	0	94	266	0	6	0	15	0	36	520
Lake Erie C. of Osteopathic Medicine	472	0	0	472	0	0	0	0	0	0	0
Moravian C.	309	0	9	138	100	22	24	0	0	0	16
Muhlenberg C.	398	0	0	153	5	83	9	0	90	0	58
Saint Francis U.	878	8	22	0	472	0	0	0	192	52	132
Salus U.	650	0	0	650	0	0	0	0	0	0	0
Susquehanna U.	496	0	4	435	2	0	1	47	0	0	7

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Scranton	595	17	118	298	5	44	14	16	0	0	83
Ursinus C.	497	0	0	374	6	112	0	1	0	0	4
Widener U., Chester	586	0	52	396	0	0	0	39	0	98	1
Wilkes U.	968	0	20	309	13	426	0	9	0	157	34
Rhode Island	893	0	208	461	0	105	1	57	0	0	61
Private	893	0	208	461	0	105	1	57	0	0	61
Bryant U.	302	0	208	21	0	0	1	11	0	0	61
Salve Regina U.	591	0	0	440	0	105	0	46	0	0	0
South Carolina	1,922	88	91	889	1	231	4	90	0	266	262
Public	1,252	88	91	429	1	58	4	90	0	266	225
Francis Marion U.	216	0	0	55	1	58	4	0	0	98	0
U. South Carolina Upstate	437	85	0	4	0	0	0	13	0	168	167
U. South Carolina, Beaufort	599	3	91	370	0	0	0	77	0	0	58
Private	670	0	0	460	0	173	0	0	0	0	37
Coker U.	485	0	0	460	0	25	0	0	0	0	0
Converse C.	185	0	0	0	0	148	0	0	0	0	37
South Dakota	1,794	0	155	1,091	0	454	0	0	4	90	0
Public	756	0	155	507	0	0	0	0	4	90	0
Northern State U.	240	0	0	236	0	0	0	0	4	0	0
Oglala Lakota C.	516	0	155	271	0	0	0	0	0	90	0
Private	1,038	0	0	584	0	454	0	0	0	0	0
Augustana U.	1,038	0	0	584	0	454	0	0	0	0	0
Tennessee	1,615	0	235	935	6	16	25	36	92	10	260
Public	305	0	0	295	0	0	0	0	0	10	0
U. Tennessee, Martin	305	0	0	295	0	0	0	0	0	10	0
Private	1,310	0	235	640	6	16	25	36	92	0	260
Sewanee: U. of the South	864	0	235	194	6	16	25	36	92	0	260
Southern C. of Optometry	446	0	0	446	0	0	0	0	0	0	0
Texas	6,582	407	150	1,191	79	2,641	90	229	79	529	1,187
Public	2,502	401	150	647	58	37	48	98	18	196	849
Angelo State U.	798	4	90	591	0	37	29	5	18	1	23
Texas A&M U.-Central Texas	623	349	0	0	7	0	0	55	0	187	25

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-San Antonio	567	48	60	56	51	0	19	38	0	8	287
U. Houston system administration	514	0	0	0	0	0	0	0	0	0	514
Private	4,080	6	0	544	21	2,604	42	131	61	333	338
Abilene Christian U.	2,631	1	0	59	0	2,420	25	3	0	2	121
Austin C.	342	0	0	54	9	86	0	80	1	0	112
LeTourneau U.	271	0	0	0	0	3	0	0	0	264	4
Southwestern U.	261	5	0	66	12	71	17	48	0	0	42
St. Mary's U., San Antonio	374	0	0	164	0	24	0	0	60	67	59
Texas Chiropractic C.	201 i	0 i	0 i	201 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Utah	1,291	0	863	211	0	195	2	0	0	20	0
Public	1,291	0	863	211	0	195	2	0	0	20	0
Southern Utah U.	955	0	841	59	0	35	0	0	0	20	0
Utah Valley U.	336	0	22	152	0	160	2	0	0	0	0
Vermont	749	0	196	259	43	124	0	0	0	26	101
Private	749	0	196	259	43	124	0	0	0	26	101
Norwich U.	749	0	196	259	43	124	0	0	0	26	101
Virginia	5,494	43	187	834	66	311	55	309	84	90	3,515
Public	4,288	41	60	495	48	132	31	105	84	90	3,202
Longwood U.	368	0	0	17	0	0	0	15	0	0	336
Radford U.	774	12	60	459	18	62	14	29	84	0	36
U. Virginia's C. Wise	2,434	0	0	0	0	0	0	0	0	0	2,434
Virginia Military Institute	712	29	0	19	30	70	17	61	0	90	396
Private	1,206	2	127	339	18	179	24	204	0	0	313
Eastern Mennonite U.	236	0	0	236	0	0	0	0	0	0	0
Ferrum C.	150	0	65	0	0	85	0	0	0	0	0
Roanoke C.	606	2	23	78	5	66	24	142	0	0	266
Washington and Lee U.	214	0	39	25	13	28	0	62	0	0	47
Washington	3,907	110	42	1,356	68	670	204	287	1	389	780
Public	390	75	0	15	0	300	0	0	0	0	0
Evergreen State C.	390	75	0	15	0	300	0	0	0	0	0
Private	3,517	35	42	1,341	68	370	204	287	1	389	780
Bastyr U.	250	0	0	250	0	0	0	0	0	0	0

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Gonzaga U.	506	0	0	96	6	65	0	0	0	266	73
Pacific Lutheran U.	449	9	26	14	44	76	125	8	0	0	147
Pacific Northwest U. of Health Sciences	808	0	0	808	0	0	0	0	0	0	0
Saint Martin's U.	201	0	16	21	0	0	0	143	1	0	20
Seattle Pacific U.	643	0	0	31	0	18	75	0	0	0	519
Whitworth U.	660	26	0	121	18	211	4	136	0	123	21
West Virginia	1,892	7	0	1,170	0	13	1	5	248	166	282
Public	1,223	0	0	1,055	0	0	0	0	0	166	2
Bluefield State C.	485	0	0	317	0	0	0	0	0	166	2
West Liberty U.	738	0	0	738	0	0	0	0	0	0	0
Private	669	7	0	115	0	13	1	5	248	0	280
Future Generations U.	271 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	271 i
U. Charleston	150 i	7 i	0 i	115 i	0 i	13 i	1 i	5 i	0 i	0 i	9 i
Wheeling U.	248	0	0	0	0	0	0	0	248	0	0
Wisconsin	3,818	102	415	894	146	190	216	871	130	12	842
Public	1,460	99	110	378	75	66	39	269	31	12	381
U. Wisconsin-Parkside	169	0	105	0	0	15	4	0	0	0	45
U. Wisconsin-Stout	555	99	0	22	38	13	35	81	31	12	224
U. Wisconsin-Whitewater	736	0	5	356	37	38	0	188	0	0	112
Private	2,358	3	305	516	71	124	177	602	99	0	461
Alverno C.	237	0	0	0	0	0	0	0	0	0	237
Concordia U., Wisconsin	293	0	0	199	0	41	0	53	0	0	0
Lawrence U.	423	0	12	116	3	62	171	27	0	0	32
Northland C.	1,101	0	293	150	47	0	0	512	99	0	0
St. Norbert C.	304	3	0	51	21	21	6	10	0	0	192
American Samoa	1,536	0	0	0	0	0	0	1,536	0	0	0
Public	1,536	0	0	0	0	0	0	1,536	0	0	0
American Samoa Community C.	1,536	0	0	0	0	0	0	1,536	0	0	0
Puerto Rico	6,573	0	173	2,000	0	384	85	3,681	62	0	188
Public	1,225	0	173	840	0	8	0	87	51	0	66
U. Puerto Rico, Aguadilla	562	0	173	208	0	0	0	69	51	0	61
U. Puerto Rico, Ponce	663 i	0 i	0 i	632 i	0 i	8 i	0 i	18 i	0 i	0 i	5 i

TABLE 82

Higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	5,348	0	0	1,160	0	376	85	3,594	11	0	122
Carlos Albizu U.	3,679	0	0	0	0	0	85	3,594	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	239	0	0	162	0	66	0	0	11	0	0
San Juan Bautista School of Medicine	612	0	0	612	0	0	0	0	0	0	0
U. Ana G. Mendez, Cupey	818	0	0	386	0	310	0	0	0	0	122

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
United States	76,425	4,224	5,258	24,408	1,763	12,224	1,697	13,766	1,518	3,576	7,991
Public	34,983	2,013	2,774	11,071	658	4,462	521	7,527	447	2,288	3,222
Private	41,442	2,211	2,484	13,337	1,105	7,762	1,176	6,239	1,071	1,288	4,769
Alabama	1,009	0	0	761	135	113	0	0	0	0	0
Public	593	0	0	504	89	0	0	0	0	0	0
Auburn U., Montgomery	192	0	0	103	89	0	0	0	0	0	0
U. West Alabama	401	0	0	401	0	0	0	0	0	0	0
Private	416	0	0	257	46	113	0	0	0	0	0
Alabama C., Osteopathic Medicine	41	0	0	41	0	0	0	0	0	0	0
Oakwood U.	375	0	0	216	46	113	0	0	0	0	0
Arkansas	1,789	0	10	893	166	251	210	0	44	211	4
Public	426	0	0	89	0	114	210	0	2	11	0
Arkansas Tech U.	382	0	0	89	0	70	210	0	2	11	0
Southern Arkansas U.	44	0	0	0	0	44	0	0	0	0	0
Private	1,363	0	10	804	166	137	0	0	42	200	4
Arkansas C. of Health Education	350	0	0	350	0	0	0	0	0	0	0
Hendrix C.	563	0	0	299	0	137	0	0	0	123	4
Ouachita Baptist U.	242 i	0 i	10 i	155 i	0 i	0 i	0 i	0 i	0 i	77 i	0 i
Philander Smith C.	208 i	0 i	0 i	0 i	166 i	0 i	0 i	0 i	42 i	0 i	0 i
California	2,121	162	0	730	0	134	179	906	0	10	0
Private	2,121	162	0	730	0	134	179	906	0	10	0
Claremont School of Theology	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Dominican U. California	677 i	0 i	0 i	677 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Fielding Graduate U.	906	0	0	0	0	0	0	906	0	0	0
International Technological U.	10	0	0	0	0	0	0	0	0	10	0
Palo Alto U.	179	0	0	0	0	0	179	0	0	0	0
Pitzer C.	0	0	0	0	0	0	0	0	0	0	0
Point Loma Nazarene U.	162	162	0	0	0	0	0	0	0	0	0
Westmont C.	174	0	0	40	0	134	0	0	0	0	0
Whittier C.	13	0	0	13	0	0	0	0	0	0	0
Colorado	1,091	16	0	685	27	140	0	39	0	0	184
Public	935	16	0	575	27	94	0	39	0	0	184

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Colorado Mesa U.	228	16	0	183	0	0	0	29	0	0	0
Metropolitan State U. of Denver	304	0	0	10	27	83	0	0	0	0	184
Western Colorado U.	403	0	0	382	0	11	0	10	0	0	0
Private	156	0	0	110	0	46	0	0	0	0	0
Regis U.	156	0	0	110	0	46	0	0	0	0	0
Connecticut	1,847	53	0	554	21	247	18	61	11	75	807
Public	649	30	0	347	0	151	0	41	0	0	80
U.S. Coast Guard Academy	302	30	0	0	0	151	0	41	0	0	80
Western Connecticut State U.	347	0	0	347	0	0	0	0	0	0	0
Private	1,198	23	0	207	21	96	18	20	11	75	727
Hartford Seminary	0	0	0	0	0	0	0	0	0	0	0
Quinnipiac U.	448 i	23 i	0 i	207 i	21 i	96 i	18 i	20 i	11 i	16 i	36 i
Sacred Heart U.	691	0	0	0	0	0	0	0	0	0	691
U. Bridgeport	59	0	0	0	0	0	0	0	0	59	0
Florida	1,749	26	400	641	91	313	0	131	24	0	123
Public	114	0	0	77	16	21	0	0	0	0	0
New C. Florida	114	0	0	77	16	21	0	0	0	0	0
Private	1,635	26	400	564	75	292	0	131	24	0	123
Barry U.	9	0	0	0	0	9	0	0	0	0	0
Bethune-Cookman U.	529	13	285	168	0	0	0	0	0	0	63
Eckerd C.	139	0	63	1	75	0	0	0	0	0	0
Jacksonville U.	0	0	0	0	0	0	0	0	0	0	0
Keiser U.	0	0	0	0	0	0	0	0	0	0	0
Rollins C.	165	0	0	0	0	136	0	5	24	0	0
St. Thomas U., Miami Gardens	117	13	0	77	0	27	0	0	0	0	0
Stetson U.	479	0	52	241	0	0	0	126	0	0	60
U. Tampa	197	0	0	77	0	120	0	0	0	0	0
Georgia	1,595	215	75	447	200	203	10	92	68	0	285
Public	1,289	215	75	288	172	142	0	44	68	0	285
Clayton State U.	302	0	0	0	0	0	0	0	68	0	234
Georgia C. and State U.	160	0	37	105	0	12	0	6	0	0	0
Georgia Gwinnett C.	338	44	0	93	91	110	0	0	0	0	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Middle Georgia State U.	209	171	0	0	0	0	0	38	0	0	0
U. West Georgia	220	0	29	90	81	20	0	0	0	0	0
Valdosta State U.	60	0	9	0	0	0	0	0	0	0	51
Private	306	0	0	159	28	61	10	48	0	0	0
Agnes Scott C.	99	0	0	0	28	61	10	0	0	0	0
Berry C.	207	0	0	159	0	0	0	48	0	0	0
Life U.	0	0	0	0	0	0	0	0	0	0	0
Hawaii	995	444	0	413	0	0	0	47	0	0	91
Public	995	444	0	413	0	0	0	47	0	0	91
U. Hawaii, Maui C.	995	444	0	413	0	0	0	47	0	0	91
Idaho	838	16	0	414	0	35	0	331	0	42	0
Public	660	0	0	329	0	0	0	331	0	0	0
Lewis-Clark State C.	660	0	0	329	0	0	0	331	0	0	0
Private	178	16	0	85	0	35	0	0	0	42	0
Northwest Nazarene U.	178	16	0	85	0	35	0	0	0	42	0
Illinois	2,104	0	0	849	0	933	0	135	0	0	187
Public	1,742	0	0	731	0	899	0	112	0	0	0
Chicago State U.	978	0	0	0	0	867	0	111	0	0	0
Eastern Illinois U.	256	0	0	223	0	32	0	1	0	0	0
Governors State U.	508	0	0	508	0	0	0	0	0	0	0
Private	362	0	0	118	0	34	0	23	0	0	187
Augustana C.	56	0	0	21	0	34	0	0	0	0	1
Elmhurst U.	209	0	0	0	0	0	0	23	0	0	186
Illinois C. of Optometry	97	0	0	97	0	0	0	0	0	0	0
Lake Forest C.	0	0	0	0	0	0	0	0	0	0	0
Indiana	1,989	136	18	904	142	648	0	49	0	76	16
Public	666	110	5	221	16	254	0	8	0	36	16
Indiana U., Kokomo	20	0	0	0	0	4	0	0	0	0	16
Indiana U., Northwest	176	0	0	163	0	11	0	2	0	0	0
Indiana U., South Bend	400	110	2	43	0	239	0	6	0	0	0
Indiana U., Southeast	15	0	0	15	0	0	0	0	0	0	0
U. Southern Indiana	55	0	3	0	16	0	0	0	0	36	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	1,323	26	13	683	126	394	0	41	0	40	0
Butler U.	362	0	0	245	0	96	0	21	0	0	0
DePauw U.	39	26	0	13	0	0	0	0	0	0	0
Earlham C.	11	0	0	11	0	0	0	0	0	0	0
Indiana Wesleyan U.	54	0	0	50	0	4	0	0	0	0	0
Manchester U.	117	0	0	117	0	0	0	0	0	0	0
Taylor U.	3	0	0	0	0	3	0	0	0	0	0
U. Evansville	65	0	0	0	65	0	0	0	0	0	0
Valparaiso U.	672	0	13	247	61	291	0	20	0	40	0
Iowa	2,520	286	66	535	234	688	132	88	0	38	453
Private	2,520	286	66	535	234	688	132	88	0	38	453
Coe C.	368	0	0	0	0	368	0	0	0	0	0
Cornell C.	228	0	38	96	0	0	94	0	0	0	0
Dordt U.	1,049	286	0	374	234	29	0	88	0	38	0
Drake U.	730	0	0	45	0	194	38	0	0	0	453
Luther C.	145	0	28	20	0	97	0	0	0	0	0
Kansas	517	0	0	353	0	54	0	110	0	0	0
Public	517	0	0	353	0	54	0	110	0	0	0
Emporia State U.	517	0	0	353	0	54	0	110	0	0	0
Kentucky	58	0	0	35	2	0	0	0	21	0	0
Private	58	0	0	35	2	0	0	0	21	0	0
Centre C.	58	0	0	35	2	0	0	0	21	0	0
Louisiana	721	235	140	151	0	51	27	0	0	117	0
Public	717	235	140	147	0	51	27	0	0	117	0
Louisiana State U., Shreveport	321	218	0	52	0	51	0	0	0	0	0
McNeese State U.	54	0	0	9	0	0	27	0	0	18	0
Nicholls State U.	86	0	0	86	0	0	0	0	0	0	0
Southern U., New Orleans	256	17	140	0	0	0	0	0	0	99	0
Private	4	0	0	4	0	0	0	0	0	0	0
Loyola U., New Orleans	4	0	0	4	0	0	0	0	0	0	0
Maine	666	29	67	286	18	85	16	44	11	0	110
Public	666	29	67	286	18	85	16	44	11	0	110

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Maine Farmington	666	29 i	67 i	286 i	18 i	85 i	16 i	44 i	11 i	0 i	110 i
Maryland	1,219	50	85	302	60	261	40	56	68	33	264
Public	471	0	85	78	60	119	40	56	0	33	0
Coppin State U.	168	0	0	78	57	0	0	0	0	33	0
St. Mary's C. Maryland	303	0	85	0	3	119	40	56	0	0	0
Private	748	50	0	224	0	142	0	0	68	0	264
Goucher C.	207	0	0	98	0	109	0	0	0	0	0
Loyola U., Maryland	326	50	0	126	0	33	0	0	68	0	49
Maryland Institute C. of Art	215	0	0	0	0	0	0	0	0	0	215
Massachusetts	2,636	639	63	727	59	540	213	101	0	112	182
Public	198	0	0	18	0	180	0	0	0	0	0
Bridgewater State U.	198	0	0	18	0	180	0	0	0	0	0
Private	2,438	639	63	709	59	360	213	101	0	112	182
Bentley U.	246	0	0	107	4	60	0	75	0	0	0
C. of the Holy Cross	308	0	0	193	0	103	12	0	0	0	0
Hampshire C.	212	111	63	30	0	0	0	0	0	8	0
Hult International Business School	432 i	31 i	0 i	276 i	26 i	0 i	24 i	26 i	0 i	0 i	49 i
Lasell U.	0	0	0	0	0	0	0	0	0	0	0
MCPHS U.	192	0	0	15	0	0	177	0	0	0	0
Simmons U.	566	458	0	59	0	0	0	0	0	0	49
Western New England U.	201	39	0	29	29	0	0	0	0	104	0
Wheaton C., Norton	281	0	0	0	0	197	0	0	0	0	84
Michigan	562	11	0	462	7	46	11	9	0	0	16
Public	350	0	0	350	0	0	0	0	0	0	0
Ferris State U.	87	0	0	87	0	0	0	0	0	0	0
Lake Superior State U.	263	0	0	263	0	0	0	0	0	0	0
Private	212	11	0	112	7	46	11	9	0	0	16
Kalamazoo C.	212 i	11 i	0 i	112 i	7 i	46 i	11 i	9 i	0 i	0 i	16 i
Minnesota	2,233	3	325	568	1	1,095	6	57	0	0	178
Public	568	3	11	335	1	120	6	3	0	0	89
Metropolitan State U.	80 i	3 i	0 i	58 i	1 i	8 i	2 i	3 i	0 i	0 i	5 i
Minnesota State U., Moorhead	89	0	11	0	0	0	4	0	0	0	74

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Minnesota, Crookston	10	0	0	0	0	0	0	0	0	0	10
U. Minnesota, Rochester	122	0	0	122	0	0	0	0	0	0	0
Winona State U.	267	0	0	155	0	112	0	0	0	0	0
Private	1,665	0	314	233	0	975	0	54	0	0	89
Augsburg U.	377	0	198	44	0	135	0	0	0	0	0
Bethany Global U.	71 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	71 i
Concordia C., Moorhead	94	0	0	9	0	85	0	0	0	0	0
Gustavus Adolphus C.	365	0	116	0	0	177	0	54	0	0	18
Saint Mary's U. Minnesota	554	0	0	0	0	554	0	0	0	0	0
St. Catherine U.	204	0	0	180	0	24	0	0	0	0	0
Mississippi	1,454	7	374	333	10	62	9	21	222	398	18
Public	1,238	6	358	234	0	17	0	12	221	390	0
Delta State U.	592	0	358	234	0	0	0	0	0	0	0
Mississippi Valley State U.	646	6	0	0	0	17	0	12	221	390	0
Private	216	1	16	99	10	45	9	9	1	8	18
Millsaps C.	216	1 i	16 i	99 i	10 i	45 i	9 i	9 i	1 i	8 i	18 i
Missouri	1,445	0	0	925	107	30	121	0	0	91	171
Public	841	0	0	321	107	30	121	0	0	91	171
Missouri Western State U.	276	0	0	155	0	0	121	0	0	0	0
Northwest Missouri State U.	107	0	0	0	107	0	0	0	0	0	0
Southeast Missouri State U.	148	0	0	57	0	0	0	0	0	91	0
Truman State U.	60	0	0	30	0	30	0	0	0	0	0
U. Central Missouri	250	0	0	79	0	0	0	0	0	0	171
Private	604	0	0	604	0	0	0	0	0	0	0
A. T. Still U.	462	0	0	462	0	0	0	0	0	0	0
Graduate School of the Stowers Institute for Medical Research	0	0	0	0	0	0	0	0	0	0	0
Kansas City U. of Medicine and Biosciences	142	0	0	142	0	0	0	0	0	0	0
Montana	437	0	0	327	0	43	0	0	0	18	49
Public	437	0	0	327	0	43	0	0	0	18	49
Montana State U., Billings	312	0	0	263	0	0	0	0	0	0	49
Montana State U., Northern	125	0	0	64	0	43	0	0	0	18	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Nevada	715	0	92	256	0	319	0	0	3	0	45
Public	715	0	92	256	0	319	0	0	3	0	45
C. Southern Nevada	183	0	10	170	0	0	0	0	3	0	0
Nevada State C.	532	0	82	86	0	319	0	0	0	0	45
New Hampshire	558	0	390	125	0	0	0	43	0	0	0
Public	558	0	390	125	0	0	0	43	0	0	0
Plymouth State U.	558	0	390	125	0	0	0	43	0	0	0
New Jersey	997	400	7	0	46	11	214	316	0	0	3
Public	379	116	0	0	0	0	0	263	0	0	0
Ramapo C. New Jersey	379	116	0	0	0	0	0	263	0	0	0
Private	618	284	7	0	46	11	214	53	0	0	3
Fairleigh Dickinson U.	560	284	6	0	0	0	214	53	0	0	3
Rider U.	58	0	1	0	46	11	0	0	0	0	0
New Mexico	702	19	3	291	0	0	0	2	8	379	0
Public	702	19	3	291	0	0	0	2	8	379	0
Eastern New Mexico U., Portales	298	0	0	291	0	0	0	2	0	5	0
Northern New Mexico C.	404	19	3	0	0	0	0	0	8	374	0
New York	4,172	365	227	703	100	1,181	63	168	619	629	117
Public	1,433	5	22	452	54	173	3	33	9	625	57
SUNY, C. Cortland	215	0	0	172	0	28	0	0	0	0	15
SUNY, C. Old Westbury	83 i	5 i	0 i	41 i	3 i	11 i	3 i	7 i	0 i	0 i	13 i
SUNY, Cobleskill	559	0	0	0	0	0	0	0	9	550	0
SUNY, Delhi	146	0	0	146	0	0	0	0	0	0	0
SUNY, Farmingdale State C.	166	0	0	0	15	52	0	0	0	75	24
SUNY, New Paltz	149	0	0	5	36	82	0	26	0	0	0
SUNY, Oneonta	115	0	22	88	0	0	0	0	0	0	5
Private	2,739	360	205	251	46	1,008	60	135	610	4	60
Adelphi U.	301 i	0 i	0 i	54 i	0 i	247 i	0 i	0 i	0 i	0 i	0 i
Bard C.	65	32	0	0	0	19	14	0	0	0	0
Canisius C.	869	0	0	0	0	259	0	0	610	0	0
Cooper Union for the Advancement of Science and Art	233	0	200	0	29	0	0	0	0	4	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
D'Youville C.	174	0	0	0	0	13	39	122	0	0	0
Iona C.	239	0	0	0	0	206	0	0	0	0	33
Le Moyne C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Marist C.	61	0	0	61	0	0	0	0	0	0	0
New York Law School	20	0	0	0	0	0	0	0	0	0	20
Northeast C. of Health Sciences	0	0	0	0	0	0	0	0	0	0	0
Sarah Lawrence C.	60	0	0	60	0	0	0	0	0	0	0
Siena C.	382	111	0	0	10	261	0	0	0	0	0
St. Lawrence U.	262	217	5	3	7	3	7	13	0	0	7
Touro C.	73	0	0	73	0	0	0	0	0	0	0
Utica C.	0	0	0	0	0	0	0	0	0	0	0
North Carolina	344	0	0	0	0	344	0	0	0	0	0
Public	344	0	0	0	0	344	0	0	0	0	0
U. North Carolina, Pembroke	344	0	0	0	0	344	0	0	0	0	0
North Dakota	1,438	0	194	1,111	0	133	0	0	0	0	0
Public	509	0	0	398	0	111	0	0	0	0	0
Mayville State U.	384	0	0	273	0	111	0	0	0	0	0
Minot State U.	125	0	0	125	0	0	0	0	0	0	0
Private	929	0	194	713	0	22	0	0	0	0	0
United Tribes Technical C.	929	0	194	713	0	22	0	0	0	0	0
Ohio	2,880	9	457	210	11	295	81	418	0	84	1,315
Private	2,880	9	457	210	11	295	81	418	0	84	1,315
Denison U.	573	9	442	0	0	122	0	0	0	0	0
John Carroll U.	1,780	0	0	110	0	0	0	413	0	0	1,257
Ohio Northern U.	242	0	0	7	0	7	81	5	0	84	58
Ohio Wesleyan U.	120	0	0	93	11	16	0	0	0	0	0
Wittenberg U.	165	0	15	0	0	150	0	0	0	0	0
Oklahoma	775	175	134	317	0	77	0	24	48	0	0
Public	775	175	134	317	0	77	0	24	48	0	0
East Central U.	169	0	134	33	0	0	0	2	0	0	0
Northeastern State U.	330	174	0	142	0	14	0	0	0	0	0
Southwestern Oklahoma State U.	276	1	0	142	0	63	0	22	48	0	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Oregon	630	0	0	24	0	256	46	132	18	20	134
Public	387	0	0	0	0	256	0	113	18	0	0
Eastern Oregon U.	150	0	0	0	0	131	0	19	0	0	0
Southern Oregon U.	237	0	0	0	0	125	0	94	18	0	0
Private	243	0	0	24	0	0	46	19	0	20	134
Linfield C.	149	0	0	13	0	0	0	2	0	0	134
U. Portland	94	0	0	11	0	0	46	17	0	20	0
Pennsylvania	10,146	396	550	2,583	106	787	96	4,568	44	256	760
Public	6,479	85	356	629	9	297	96	4,511	35	69	392
Bloomsburg U. Pennsylvania	389	16	113	164	0	0	96	0	0	0	0
East Stroudsburg U. Pennsylvania	534	0	0	165	0	0	0	0	0	0	369
Kutztown U. Pennsylvania	276	67	0	37	9	140	0	0	0	0	23
Millersville U. Pennsylvania	246	0	55	137	0	19	0	0	35	0	0
Pennsylvania State U., Altoona	9	0	0	0	0	0	0	0	0	9	0
Pennsylvania State U., Berks	273	2	0	62	0	138	0	11	0	60	0
Pennsylvania State U., Lehigh Valley	150	0	150	0	0	0	0	0	0	0	0
Shippensburg U. Pennsylvania	23	0	23	0	0	0	0	0	0	0	0
Slippery Rock U. Pennsylvania	79	0	15	64	0	0	0	0	0	0	0
U.S. Army War C.	4,500	0	0	0	0	0	0	4,500	0	0	0
Private	3,667	311	194	1,954	97	490	0	57	9	187	368
Allegheny C.	64	0	0	53	0	11	0	0	0	0	0
Arcadia U.	750	286	0	268	0	0	0	0	0	0	196
Bryn Athyn C.	0	0	0	0	0	0	0	0	0	0	0
Gannon U.	32	0	0	0	0	0	0	0	9	23	0
Geisinger Commonwealth School of Medicine	71 i	0 i	0 i	71 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Juniata C.	323	0	24	228	0	0	0	0	0	36	35
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0	0	0	0	0	0
Moravian C.	91	0	0	0	91	0	0	0	0	0	0
Muhlenberg C.	115	0	0	59	0	56	0	0	0	0	0
Saint Francis U.	173	8	0	0	0	0	0	0	0	33	132
Salus U.	450	0	0	450	0	0	0	0	0	0	0
Susquehanna U.	61	0	0	42	0	0	0	19	0	0	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
U. Scranton	312	17	118	177	0	0	0	0	0	0	0
Ursinus C.	430	0	0	374	6	46	0	0	0	0	4
Widener U., Chester	277	0	52	92	0	0	0	38	0	95	0
Wilkes U.	518	0	0	140	0	377	0	0	0	0	1
Rhode Island	805	0	208	459	0	92	0	46	0	0	0
Private	805	0	208	459	0	92	0	46	0	0	0
Bryant U.	227	0	208	19	0	0	0	0	0	0	0
Salve Regina U.	578	0	0	440	0	92	0	46	0	0	0
South Carolina	972	2	27	605	1	206	0	0	0	131	0
Public	364	2	27	145	1	58	0	0	0	131	0
Francis Marion U.	75	0	0	16	1	58	0	0	0	0	0
U. South Carolina Upstate	133	2	0	0	0	0	0	0	0	131	0
U. South Carolina, Beaufort	156	0	27	129	0	0	0	0	0	0	0
Private	608	0	0	460	0	148	0	0	0	0	0
Coker U.	460	0	0	460	0	0	0	0	0	0	0
Converse C.	148	0	0	0	0	148	0	0	0	0	0
South Dakota	1,582	0	155	945	0	392	0	0	0	90	0
Public	606	0	155	361	0	0	0	0	0	90	0
Northern State U.	100	0	0	100	0	0	0	0	0	0	0
Oglala Lakota C.	506	0	155	261	0	0	0	0	0	90	0
Private	976	0	0	584	0	392	0	0	0	0	0
Augustana U.	976	0	0	584	0	392	0	0	0	0	0
Tennessee	120	0	16	89	0	0	0	15	0	0	0
Public	74	0	0	74	0	0	0	0	0	0	0
U. Tennessee, Martin	74	0	0	74	0	0	0	0	0	0	0
Private	46	0	16	15	0	0	0	15	0	0	0
Sewanee: U. of the South	35	0	16	4	0	0	0	15	0	0	0
Southern C. of Optometry	11	0	0	11	0	0	0	0	0	0	0
Texas	2,031	349	0	200	60	1,038	0	84	0	241	59
Public	487	349	0	0	51	0	0	38	0	49	0
Angelo State U.	0	0	0	0	0	0	0	0	0	0	0
Texas A&M U.-Central Texas	398	349	0	0	0	0	0	0	0	49	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Texas A&M U.-San Antonio	89	0	0	0	51	0	0	38	0	0	0
U. Houston system administration	0	0	0	0	0	0	0	0	0	0	0
Private	1,544	0	0	200	9	1,038	0	46	0	192	59
Abilene Christian U.	999	0	0	0	0	999	0	0	0	0	0
Austin C.	116	0	0	36	9	25	0	46	0	0	0
LeTourneau U.	125	0	0	0	0	0	0	0	0	125	0
Southwestern U.	3	0	0	0	0	3	0	0	0	0	0
St. Mary's U., San Antonio	301	0	0	164	0	11	0	0	0	67	59
Texas Chiropractic C.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
Utah	1,030	0	654	161	0	193	2	0	0	20	0
Public	1,030	0	654	161	0	193	2	0	0	20	0
Southern Utah U.	741	0	632	56	0	33	0	0	0	20	0
Utah Valley U.	289	0	22	105	0	160	2	0	0	0	0
Vermont	531	0	8	259	41	119	0	0	0	10	94
Private	531	0	8	259	41	119	0	0	0	10	94
Norwich U.	531	0	8	259	41	119	0	0	0	10	94
Virginia	2,287	2	48	415	10	116	0	72	0	59	1,565
Public	1,772	0	5	160	0	31	0	11	0	59	1,506
Longwood U.	312	0	0	16	0	0	0	0	0	0	296
Radford U.	161	0	5	144	0	1	0	11	0	0	0
U. Virginia's C. Wise	952	0	0	0	0	0	0	0	0	0	952
Virginia Military Institute	347	0	0	0	0	30	0	0	0	59	258
Private	515	2	43	255	10	85	0	61	0	0	59
Eastern Mennonite U.	236	0	0	236	0	0	0	0	0	0	0
Ferrum C.	85	0	0	0	0	85	0	0	0	0	0
Roanoke C.	18	2	4	0	0	0	0	0	0	0	12
Washington and Lee U.	176	0	39	19	10	0	0	61	0	0	47
Washington	2,278	75	0	806	49	338	70	182	0	266	492
Public	279	75	0	13	0	191	0	0	0	0	0
Evergreen State C.	279	75	0	13	0	191	0	0	0	0	0
Private	1,999	0	0	793	49	147	70	182	0	266	492
Bastyr U.	0	0	0	0	0	0	0	0	0	0	0

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Gonzaga U.	305	0	0	17	5	17	0	0	0	266	0
Pacific Lutheran U.	100	0	0	0	44	56	0	0	0	0	0
Pacific Northwest U. of Health Sciences	738	0	0	738	0	0	0	0	0	0	0
Saint Martin's U.	147	0	0	14	0	0	0	133	0	0	0
Seattle Pacific U.	569	0	0	14	0	0	70	0	0	0	485
Whitworth U.	140	0	0	10	0	74	0	49	0	0	7
West Virginia	1,179	5	0	745	0	10	1	2	248	166	2
Public	848	0	0	682	0	0	0	0	0	166	0
Bluefield State C.	483	0	0	317	0	0	0	0	0	166	0
West Liberty U.	365	0	0	365	0	0	0	0	0	0	0
Private	331	5	0	63	0	10	1	2	248	0	2
Future Generations U.	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i	0 i
U. Charleston	83 i	5 i	0 i	63 i	0 i	10 i	1 i	2 i	0 i	0 i	2 i
Wheeling U.	248	0	0	0	0	0	0	0	248	0	0
Wisconsin	1,869	99	376	538	59	86	132	412	37	4	126
Public	805	99	106	337	37	38	0	72	0	4	112
U. Wisconsin-Parkside	105	0	105	0	0	0	0	0	0	0	0
U. Wisconsin-Stout	175	99	0	0	0	0	0	72	0	4	0
U. Wisconsin-Whitewater	525	0	1	337	37	38	0	0	0	0	112
Private	1,064	0	270	201	22	48	132	340	37	0	14
Alverno C.	0	0	0	0	0	0	0	0	0	0	0
Concordia U., Wisconsin	235	0	0	191	0	41	0	3	0	0	0
Lawrence U.	165	0	9	10	0	0	132	0	0	0	14
Northland C.	657	0	261	0	22	0	0	337	37	0	0
St. Norbert C.	7	0	0	0	0	7	0	0	0	0	0
American Samoa	1,536	0	0	0	0	0	0	1,536	0	0	0
Public	1,536	0	0	0	0	0	0	1,536	0	0	0
American Samoa Community C.	1,536	0	0	0	0	0	0	1,536	0	0	0
Puerto Rico	5,253	0	89	1,271	0	259	0	3,469	24	0	141
Public	829	0	89	647	0	0	0	34	24	0	35
U. Puerto Rico, Aguadilla	283	0	89	112	0	0	0	23	24	0	35
U. Puerto Rico, Ponce	546 i	0 i	0 i	535 i	0 i	0 i	0 i	11 i	0 i	0 i	0 i

TABLE 83

Federally financed higher education R&D expenditures at institutions in the short form survey population, by state, institutional control, institution, and R&D field: FY 2020

(Dollars in thousands)

State, institutional control, and institution	All R&D expenditures	Computer and information sciences	Geosciences, atmospheric sciences, and ocean sciences	Life sciences	Mathematics and statistics	Physical sciences	Psychology	Social sciences	Sciences nec	Engineering	All non-S&E fields
Private	4,424	0	0	624	0	259	0	3,435	0	0	106
Carlos Albizu U.	3,435	0	0	0	0	0	0	3,435	0	0	0
Pontifical Catholic U. Puerto Rico, Ponce	125	0	0	79	0	46	0	0	0	0	0
San Juan Bautista School of Medicine	202	0	0	202	0	0	0	0	0	0	0
U. Ana G. Mendez, Cupey	662	0	0	343	0	213	0	0	0	0	106

i = imputed.

nec = not elsewhere classified; S&E = science and engineering.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient						Passed through to subrecipients					
	Total		Federally financed		Nonfederally financed		Total		Federally financed		Nonfederally financed	
United States	17,819		15,574		2,245		2,158		1,778		380	
Alabama												
Public												
Auburn U., Montgomery	32		32		0		0		0		0	
U. West Alabama	56		56		0		0		0		0	
Private												
Alabama C., Osteopathic Medicine	0		0		0		0		0		0	
Oakwood U.	112		112		0		0		0		0	
Arkansas												
Public												
Arkansas Tech U.	0		0		0		0		0		0	
Southern Arkansas U.	0		0		0		0		0		0	
Private												
Arkansas C. of Health Education	0		0		0		0		0		0	
Hendrix C.	230		230		0		0		0		0	
Ouachita Baptist U.	157	i	157	i	0	i	0	i	0	i	0	i
Philander Smith C.	40	i	40	i	0	i	0	i	0	i	0	i
California												
Private												
Claremont School of Theology	0	i	0	i	0	i	0	i	0	i	0	i
Dominican U. California	45	i	45	i	0	i	0	i	0	i	0	i
Fielding Graduate U.	0		0		0		56		56		0	
International Technological U.	0		0		0		0		0		0	
Palo Alto U.	179		179		0		0		0		0	
Pitzer C.	0		0		0		0		0		0	
Point Loma Nazarene U.	0		0		0		0		0		0	
Westmont C.	22		22		0		0		0		0	
Whittier C.	13		13		0		0		0		0	
Colorado												
Public												
Colorado Mesa U.	53		46		7		0		0		0	
Metropolitan State U. of Denver	0		0		0		20		20		0	
Western Colorado U.	41		41		0		0		0		0	
Private												
Regis U.	4		4		0		41		41		0	
Connecticut												
Public												
U.S. Coast Guard Academy	0		0		0		0		0		0	
Western Connecticut State U.	0		0		0		116		116		0	
Private												
Hartford Seminary	0		0		0		0		0		0	
Quinnipiac U.	60	i	57	i	3	i	37	i	34	i	3	i
Sacred Heart U.	0		0		0		0		0		0	
U. Bridgeport	60		54		6		0		0		0	
Florida												
Public												
New C. Florida	21		21		0		0		0		0	

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Private						
Barry U.	32	9	23	0	0	0
Bethune-Cookman U.	177	177	0	0	0	0
Eckerd C.	75	4	71	0	0	0
Jacksonville U.	0	0	0	0	0	0
Keiser U.	0	0	0	0	0	0
Rollins C.	24	24	0	0	0	0
St. Thomas U., Miami Gardens	117	117	0	0	0	0
Stetson U.	49	49	0	0	0	0
U. Tampa	7	7	0	0	0	0
Georgia						
Public						
Clayton State U.	237	224	13	0	0	0
Georgia C. and State U.	12	12	0	0	0	0
Georgia Gwinnett C.	0	0	0	0	0	0
Middle Georgia State U.	42	36	6	0	0	0
U. West Georgia	85	78	7	2	2	0
Valdosta State U.	148	51	97	0	0	0
Private						
Agnes Scott C.	38	38	0	0	0	0
Berry C.	0	0	0	0	0	0
Life U.	0	0	0	0	0	0
Hawaii						
Public						
U. Hawaii, Maui C.	0	0	0	0	0	0
Idaho						
Public						
Lewis-Clark State C.	329	329	0	141	141	0
Private						
Northwest Nazarene U.	178	178	0	0	0	0
Illinois						
Public						
Chicago State U.	0	0	0	0	0	0
Eastern Illinois U.	4	4	0	0	0	0
Governors State U.	47	47	0	0	0	0
Private						
Augustana C.	8	8	0	0	0	0
Elmhurst U.	0	0	0	67	67	0
Illinois C. of Optometry	0	0	0	0	0	0
Lake Forest C.	0	0	0	0	0	0
Indiana						
Public						
Indiana U., Kokomo	4	4	0	0	0	0
Indiana U., Northwest	17	17	0	0	0	0
Indiana U., South Bend	54	54	0	87	87	0
Indiana U., Southeast	0	0	0	0	0	0
U. Southern Indiana	52	52	0	0	0	0

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Private						
Butler U.	65	44	21	21	21	0
DePauw U.	0	0	0	0	0	0
Earlham C.	11	11	0	0	0	0
Indiana Wesleyan U.	0	0	0	42	42	0
Manchester U.	0	0	0	0	0	0
Taylor U.	3	3	0	0	0	0
U. Evansville	0	0	0	0	0	0
Valparaiso U.	238	238	0	0	0	0
Iowa						
Private						
Coe C.	0	0	0	0	0	0
Cornell C.	8	8	0	0	0	0
Dordt U.	0	0	0	31	31	0
Drake U.	411	393	18	1	0	1
Luther C.	56	54	2	0	0	0
Kansas						
Public						
Emporia State U.	254	254	0	0	0	0
Kentucky						
Private						
Centre C.	58	58	0	0	0	0
Louisiana						
Public						
Louisiana State U., Shreveport	321	321	0	0	0	0
McNeese State U.	66	27	39	0	0	0
Nicholls State U.	24	22	2	96	0	96
Southern U., New Orleans	157	157	0	0	0	0
Private						
Loyola U., New Orleans	4	4	0	0	0	0
Maine						
Public						
U. Maine Farmington	30 i	27 i	3 i	13 i	11 i	2 i
Maryland						
Public						
Coppin State U.	122	119	3	0	0	0
St. Mary's C. Maryland	0	0	0	0	0	0
Private						
Goucher C.	0	0	0	0	0	0
Loyola U., Maryland	148	126	22	3	0	3
Maryland Institute C. of Art	151	52	99	0	0	0
Massachusetts						
Public						
Bridgewater State U.	0	0	0	0	0	0
Private						
Bentley U.	39	39	0	25	25	0
C. of the Holy Cross	29	29	0	13	13	0

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient						Passed through to subrecipients					
	Total		Federally financed		Nonfederally financed		Total		Federally financed		Nonfederally financed	
Hampshire C.	12		12		0		0		0		0	
Hult International Business School	61	i	57	i	4	i	22	i	21	i	1	i
Lasell U.	0		0		0		0		0		0	
MCPHS U.	15		15		0		0		0		0	
Simmons U.	49		49		0		0		0		0	
Western New England U.	69		69		0		0		0		0	
Wheaton C., Norton	197		197		0		0		0		0	
Michigan												
Public												
Ferris State U.	39		39		0		0		0		0	
Lake Superior State U.	45		45		0		0		0		0	
Private												
Kalamazoo C.	0	i	0	i	0	i	0	i	0	i	0	i
Minnesota												
Public												
Metropolitan State U.	5	i	4	i	1	i	5	i	5	i	0	i
Minnesota State U., Moorhead	78		30		48		11		11		0	
U. Minnesota, Crookston	11		10		1		0		0		0	
U. Minnesota, Rochester	106		106		0		0		0		0	
Winona State U.	0		0		0		0		0		0	
Private												
Augsburg U.	141		141		0		0		0		0	
Bethany Global U.	10	i	9	i	1	i	4	i	4	i	0	i
Concordia C., Moorhead	39		39		0		0		0		0	
Gustavus Adolphus C.	145		136		9		0		0		0	
Saint Mary's U. Minnesota	0		0		0		0		0		0	
St. Catherine U.	100		0		100		0		0		0	
Mississippi												
Public												
Delta State U.	141		141		0		0		0		0	
Mississippi Valley State U.	26		26		0		0		0		0	
Private												
Millsaps C.	124	i	124	i	0	i	0	i	0	i	0	i
Missouri												
Public												
Missouri Western State U.	0		0		0		0		0		0	
Northwest Missouri State U.	0		0		0		0		0		0	
Southeast Missouri State U.	22		22		0		40		40		0	
Truman State U.	59		59		0		0		0		0	
U. Central Missouri	0		0		0		0		0		0	
Private												
A. T. Still U.	217		216		1		20		15		5	
Graduate School of the Stowers Institute for Medical Research	0		0		0		0		0		0	
Kansas City U. of Medicine and Biosciences	0		0		0		0		0		0	
Montana												
Public												
Montana State U., Billings	148		148		0		0		0		0	

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient						Passed through to subrecipients					
	Total		Federally financed		Nonfederally financed		Total		Federally financed		Nonfederally financed	
Montana State U., Northern	64		64		0		18		18		0	
Nevada												
Public												
C. Southern Nevada	194		183		11		0		0		0	
Nevada State C.	335		335		0		25		25		0	
New Hampshire												
Public												
Plymouth State U.	337		324		13		0		0		0	
New Jersey												
Public												
Ramapo C. New Jersey	0		0		0		0		0		0	
Private												
Fairleigh Dickinson U.	130		37		93		79		79		0	
Rider U.	39		39		0		0		0		0	
New Mexico												
Public												
Eastern New Mexico U., Portales	25		25		0		0		0		0	
Northern New Mexico C.	176		176		0		0		0		0	
New York												
Public												
SUNY, C. Cortland	221		194		27		0		0		0	
SUNY, C. Old Westbury	8	i	6	i	2	i	3	i	2	i	1	i
SUNY, Cobleskill	11		11		0		125		95		30	
SUNY, Delhi	0		0		0		0		0		0	
SUNY, Farmingdale State C.	105		105		0		0		0		0	
SUNY, New Paltz	22		19		3		23		23		0	
SUNY, Oneonta	10		0		10		8		8		0	
Private												
Adelphi U.	0	i	0	i	0	i	0	i	0	i	0	i
Bard C.	0		0		0		0		0		0	
Canisius C.	40		40		0		0		0		0	
Cooper Union for the Advancement of Science and Art	265		200		65		0		0		0	
D'Youville C.	0		0		0		0		0		0	
Iona C.	0		0		0		33		33		0	
Le Moyne C.	0	i	0	i	0	i	0	i	0	i	0	i
Marist C.	0		0		0		0		0		0	
New York Law School	0		0		0		0		0		0	
Northeast C. of Health Sciences	0		0		0		0		0		0	
Sarah Lawrence C.	0		0		0		0		0		0	
Siena C.	30		30		0		0		0		0	
St. Lawrence U.	0		0		0		0		0		0	
Touro C.	73		73		0		0		0		0	
Utica C.	0		0		0		0		0		0	
North Carolina												
Public												
U. North Carolina, Pembroke	0		0		0		0		0		0	
North Dakota												

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Public						
Mayville State U.	384	384	0	0	0	0
Minot State U.	200	125	75	0	0	0
Private						
United Tribes Technical C.	39	39	0	0	0	0
Ohio						
Private						
Denison U.	19	0	19	0	0	0
John Carroll U.	0	0	0	0	0	0
Ohio Northern U.	10	10	0	64	64	0
Ohio Wesleyan U.	0	0	0	49	49	0
Wittenberg U.	15	15	0	0	0	0
Oklahoma						
Public						
East Central U.	103	63	40	0	0	0
Northeastern State U.	170	156	14	130	130	0
Southwestern Oklahoma State U.	276	276	0	0	0	0
Oregon						
Public						
Eastern Oregon U.	0	0	0	0	0	0
Southern Oregon U.	152	67	85	17	17	0
Private						
Linfield C.	11	11	0	0	0	0
U. Portland	20	20	0	0	0	0
Pennsylvania						
Public						
Bloomsburg U. Pennsylvania	180	180	0	0	0	0
East Stroudsburg U. Pennsylvania	0	0	0	0	0	0
Kutztown U. Pennsylvania	70	70	0	0	0	0
Millersville U. Pennsylvania	0	0	0	15	15	0
Pennsylvania State U., Altoona	6	3	3	1	0	1
Pennsylvania State U., Berks	20	20	0	0	0	0
Pennsylvania State U., Lehigh Valley	0	0	0	0	0	0
Shippensburg U. Pennsylvania	47	0	47	0	0	0
Slippery Rock U. Pennsylvania	13	13	0	8	8	0
U.S. Army War C.	0	0	0	0	0	0
Private						
Allegheny C.	0	0	0	0	0	0
Arcadia U.	406	406	0	41	1	40
Bryn Athyn C.	0	0	0	0	0	0
Gannon U.	24	22	2	0	0	0
Geisinger Commonwealth School of Medicine	10 i	9 i	1 i	4 i	4 i	0 i
Juniata C.	58	58	0	72	72	0
Lake Erie C. of Osteopathic Medicine	0	0	0	0	0	0
Moravian C.	0	0	0	0	0	0
Muhlenberg C.	0	0	0	0	0	0
Saint Francis U.	31	0	31	0	0	0

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Salus U.	0	0	0	0	0	0
Susquehanna U.	11	11	0	0	0	0
U. Scranton	0	0	0	0	0	0
Ursinus C.	17	17	0	0	0	0
Widener U., Chester	68	68	0	0	0	0
Wilkes U.	1	1	0	0	0	0
Rhode Island						
Private						
Bryant U.	227	227	0	0	0	0
Salve Regina U.	421	408	13	0	0	0
South Carolina						
Public						
Francis Marion U.	2	0	2	0	0	0
U. South Carolina Upstate	42	42	0	15	15	0
U. South Carolina, Beaufort	0	0	0	0	0	0
Private						
Coker U.	2	2	0	137	137	0
Converse C.	93	93	0	0	0	0
South Dakota						
Public						
Northern State U.	86	86	0	0	0	0
Oglala Lakota C.	129	129	0	0	0	0
Private						
Augustana U.	843	843	0	0	0	0
Tennessee						
Public						
U. Tennessee, Martin	0 i	0	0 i	32	32	0
Private						
Sewanee: U. of the South	0	0	0	0	0	0
Southern C. of Optometry	0	0	0	0	0	0
Texas						
Public						
Angelo State U.	0	0	0	63	0	63
Texas A&M U.-Central Texas	0	0	0	0	0	0
Texas A&M U.-San Antonio	103	89	14	0	0	0
U. Houston system administration	0	0	0	0	0	0
Private						
Abilene Christian U.	701	701	0	0	0	0
Austin C.	34	34	0	0	0	0
LeTourneau U.	0	0	0	0	0	0
Southwestern U.	3	3	0	0	0	0
St. Mary's U., San Antonio	139	139	0	0	0	0
Texas Chiropractic C.	0 i	0 i	0 i	0 i	0 i	0 i
Utah						
Public						
Southern Utah U.	30	30	0	0	0	0
Utah Valley U.	10	10	0	0	0	0

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient			Passed through to subrecipients		
	Total	Federally financed	Nonfederally financed	Total	Federally financed	Nonfederally financed
Vermont						
Private						
Norwich U.	593	523	70	0	0	0
Virginia						
Public						
Longwood U.	0	0	0	0	0	0
Radford U.	80	69	11	41	29	12
U. Virginia's C. Wise	826	7	819	0	0	0
Virginia Military Institute	57	57	0	0	0	0
Private						
Eastern Mennonite U.	0	0	0	0	0	0
Ferrum C.	0	0	0	0	0	0
Roanoke C.	4	4	0	0	0	0
Washington and Lee U.	26	26	0	28	28	0
Washington						
Public						
Evergreen State C.	72	0	72	0	0	0
Private						
Bastyr U.	0	0	0	0	0	0
Gonzaga U.	38	38	0	0	0	0
Pacific Lutheran U.	15	7	8	0	0	0
Pacific Northwest U. of Health Sciences	0	0	0	0	0	0
Saint Martin's U.	0	0	0	0	0	0
Seattle Pacific U.	185	185	0	62	62	0
Whitworth U.	29	28	1	121	0	121
West Virginia						
Public						
Bluefield State C.	317	317	0	0	0	0
West Liberty U.	283	272	11	0	0	0
Private						
Future Generations U.	0 i	0 i	0 i	0 i	0 i	0 i
U. Charleston	7 i	6 i	1 i	7 i	6 i	1 i
Wheeling U.	0	0	0	0	0	0
Wisconsin						
Public						
U. Wisconsin-Parkside	53	53	0	0	0	0
U. Wisconsin-Stout	0	0	0	0	0	0
U. Wisconsin-Whitewater	79	72	7	12	12	0
Private						
Alverno C.	0	0	0	0	0	0
Concordia U., Wisconsin	241	206	35	11	11	0
Lawrence U.	33	33	0	0	0	0
Northland C.	0	0	0	0	0	0
St. Norbert C.	0	0	0	0	0	0
American Samoa						
Public						
American Samoa Community C.	0	0	0	0	0	0

TABLE 84

Higher education R&D expenditures received from and passed through to other U.S. higher education institutions, at institutions in the short form survey population, by state, institutional control, institution, and source of funds: FY 2020

(Dollars in thousands)

State, institutional control, and institution	Received as a subrecipient						Passed through to subrecipients					
	Total		Federally financed		Nonfederally financed		Total		Federally financed		Nonfederally financed	
Puerto Rico												
Public												
U. Puerto Rico, Aguadilla	33		0		33		0		0		0	
U. Puerto Rico, Ponce	11	i	11	i	0	i	0	i	0	i	0	i
Private												
Carlos Albizu U.	0		0		0		0		0		0	
Pontifical Catholic U. Puerto Rico, Ponce	46		46		0		0		0		0	
San Juan Bautista School of Medicine	0		0		0		0		0		0	
U. Ana G. Mendez, Cupey	565		565		0		0		0		0	

i = imputed.

Note(s):
Institutions are included in the short form population if they reported less than $1 million in total R&D expenditures during the previous fiscal year.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

Technical Notes

Survey Overview

Purpose. The Higher Education Research and Development (HERD) Survey is the primary source of information on separately accounted for research and development expenditures within higher education institutions in the United States and outlying areas.

Data collection authority. The information is solicited under the authority of the National Science Foundation Act of 1950, as amended, and the America COMPETES Reauthorization Act of 2010. The Office of Management and Budget control number is 3145-0100, with an expiration date of 31 August 2022.

Survey contractor. ICF.

Survey sponsor. The HERD Survey is sponsored by the National Center for Science and Engineering Statistics within the National Science Foundation.

Key Survey Information

Frequency. Annual.

Initial survey year. In 2010, the HERD Survey replaced a previous annual collection, the Survey of Research and Development Expenditures at Universities and Colleges (Academic R&D Expenditures Survey), which was conducted from FY 1972 through FY 2009.

Reference period. The academic fiscal year ending in 2020; for most institutions, this was 1 July 2019 to 30 June 2020.

Response unit. Establishment; U.S. academic institutions reporting at least $150,000 in R&D expenditures in the previous fiscal year.

Sample or census. Census.

Population size. A total of 915 institutions.

Sample size. The survey was a census of all known eligible universities and colleges.

Survey Design

Target population. Public and private nonprofit postsecondary institutions in the United States, Guam, Puerto Rico, and the U.S. Virgin Islands that granted a bachelor's degree or higher in any field, expended at least $150,000 in separately accounted for R&D in FY 2020, and were geographically separate campuses headed by a president, chancellor, or equivalent. A list of all accredited, degree-granting institutions in the United States (the *Higher Education Directory*) was obtained from Higher Education Publications (HEP). More information about HEP and its sources can be found at **https://hepinc.com/about/**.

The survey population was reviewed before data collection began to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the survey to determine whether changes had occurred (e.g., name; highest degree granted; school openings, closings, or mergers). Table A-1 shows all institution name changes or mergers between the FY 2019 and FY 2020 surveys.

After data collection closed, institutions were reviewed to verify that only those reporting at least $150,000 in separately accounted for R&D were included in the population. Of the 932 institutions surveyed, 17 completed the survey but reported total R&D expenditures of less than $150,000. These institutions were excluded from the population, and their data are not included in the FY 2020 survey totals. The total and federally funded R&D expenditures for these 17 institutions are listed in table A-2.

Sampling frame. The frame for the FY 2020 HERD Survey included (1) all institutions considered in scope for the FY 2019 survey, (2) institutions that granted a bachelor's degree or higher and reported an amount greater than $0 for research on the Integrated Postsecondary Education Data System (IPEDS) 2018 Finance Survey, (3) all U.S. service institutions that granted a bachelor's degree or higher and were not already part of the HERD Survey population, and (4) institutions that granted graduate degrees but did not report to IPEDS and were not already part of the HERD Survey population. The information in the *Higher Education Directory* was used to locate institutions meeting the conditions listed in 3 and 4. When FY 2019 R&D expenditures were not known, institutions in the frame were sent a brief questionnaire asking whether the institution had R&D expenditures during FY 2019 and FY 2020 and whether those expenditures were less than $150,000, were $150,000 to $999,999, or were $1 million or more.

The population review screener was sent to 101 institutions. A total of 21 institutions were added to the survey population during the population review. One other institution was added when representatives of university systems contacted data collection staff about campuses that newly qualified for the survey. During data collection, 22 institutions were removed from the population after they indicated that their R&D expenditures were less than $150,000 for FY 2020, or that their institution had merged with another surveyed university or college. After accounting for these additions and subtractions, the number of academic institutions in the final population decreased from 916 in FY 2019 to 915 in FY 2020 (table A-3).

Sample design. The FY 1997 survey was the last one conducted as a sample survey. Since FY 1998, the survey has been a census of all known eligible universities and colleges.

Data Collection and Processing Methods

Data collection. The FY 2020 survey questionnaires were sent by e-mail in December 2020. Respondents could choose to submit a questionnaire downloaded from the Web or use a Web-based data collection system to respond to the survey. Every effort was made to maintain close contact with respondents to preserve both the consistency and continuity of the resulting data. Survey data reports for each institution were available on the survey website; these showed comparisons between the current and 2 prior years of data and noted any substantive disparities. Questionnaires were carefully examined for completeness upon receipt. Respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data. These e-mail messages included a link to the HERD Survey Web-based data collection system, allowing respondents to view and correct their data online.

Respondents were asked to explain significant differences between current-year reporting and established patterns of reporting verified for prior years. They were encouraged to correct prior-year data, if necessary. When respondents updated or amended figures from past years, NCSES made corresponding changes to trend data in the 2020 data tables and to the underlying microdata. For accurate historical data, use only the most recently released data tables.

Mode. Respondents could choose to submit a questionnaire downloaded from the Web or use the Web-based data collection system to respond to the survey. All institutions submitted data using the Web-based survey.

Response rates. By the survey's closing date in August 2021, forms had been received from 878 universities and colleges out of a population of 915, a response rate of 96.0%. Responses were received from 97.3% of all doctorate-granting institutions. The R&D expenditures reported by these doctoral institutions constituted 99.1% of the estimated national R&D expenditures for FY 2020. Table A-4 displays a detailed breakdown of response rates by survey form and highest degree granted, and table A-5 displays a breakdown of response rates for each survey question.

Data editing. The HERD Survey was subject to very little editing. Respondents were contacted and asked to resolve possible self-reporting issues themselves. Questionnaires were carefully examined by survey staff upon receipt. Reviews focused on unexplained missing data, expenditures that were outliers compared to those of peer institutions, and explanations provided for changes in reporting patterns. Because the new questions on R&D personnel were often difficult to complete under the challenging work environment created by the COVID-19 pandemic, respondents were told they could submit "unavailable" responses without explanation for these questions, which is usually required. If additional explanations or data revisions were needed to other questions, respondents were sent personalized e-mail messages asking them to provide any necessary revisions before the final processing and tabulation of data.

Imputation. Missing values were imputed based on the previous year's data and the reported data of peer institutions in the current cycle. For the 32 institutions that had not responded by the closing date of the survey and had been included in the FY 2019 HERD Survey population, R&D expenditures were imputed by applying inflator and deflator factors to the prior year's key totals. The key totals for FY 2020 included total R&D expenditures, federal R&D expenditures, expenditures received as a subrecipient from higher education sources, expenditures received as a subrecipient from non-higher education sources, expenditures passed through to higher education entities, and expenditures passed through to non-higher education entities. Imputation factors were ratios derived from the 2-year-trend data of responding institutions with similar characteristics, including highest degree granted, type of institutional control (public or private), and level of total R&D expenditures. Other values that were not identified as key totals were imputed by applying ratios from the previous year's data.

For five institutions that were new to the survey population, no past-year data were available. For these institutions, total R&D expenditures were assumed to be $150,000 or $1,000,000 based on the institutions' responses to the population review screener. Other values were then imputed as a proportion of total R&D expenditures based on the data of institutions with similar characteristics. Data for partial nonresponse were imputed using similar techniques.

Table A-6 through table A-18 present imputed amounts for each applicable survey variable. The dollar amount imputed is displayed, along with the percentage it represents of the national estimate for universities and colleges for a variable. The imputed total R&D was $127 million, or 0.1%, of the $86.4 billion in total R&D expenditures (table A-6).

Several surveyed institutions have responded intermittently in past years. For years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a re-imputation of institutional data for prior years is also performed. For each institution, previously imputed values from the HERD Survey (FYs 2010–19) were recomputed to ensure that the imputed data are consistent with reporting patterns from the FY 2020 survey. These procedures result in much more consistent reporting trends for individual institutions but have little effect on aggregate figures reflecting national totals. In the data tables, the letter *i* is used to identify imputed data.

R&D expenditures from unspecified federal agencies (Question 10) and capitalization thresholds for software and equipment (Question 13) were not imputed. Response summaries for these questions can be found in table A19 and table A-20.

Weighting. Survey data were not weighted.

Variance estimation. No variance estimation techniques were used.

Survey Quality Measures

Sampling error. Because the FY 2020 survey was distributed to all institutions in the universe, there was no sampling error.

Coverage error. Coverage error of large research institutions is minimal because of comprehensive lists. These institutions are easily identified using the NCSES Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions. However, institutions with smaller amounts of R&D expenditures have been more difficult to identify because they often do not receive federal funding for science and engineering (S&E) R&D.

Nonresponse error. Thirty-seven universities and colleges did not respond in FY 2020, out of a total of 915 eligible institutions, for a nonresponse rate of 4.0%. Table A-4 displays a detailed breakdown of response rates by survey population and highest degree granted.

The item nonresponse rates for questions recurring from FY 2019 varied from 0.0% for Question 1, total R&D expenditures by source of funds; Question 9, federal expenditures by R&D field; and for Question 11, R&D expenditures from nonfederal sources, to 7.7% for Question 6, R&D expenditures by type of R&D (basic research, applied research, and experimental development). Questions 15 and 16, which were new or greatly revised from FY 2019, had nonresponse rates of 21.1% and 46.3% respectively. Table A-5 displays a breakdown of response rates for each question in each of the two surveys. See section “Imputation” for mitigation of item nonresponses. Table A-6 through table A-18 present imputed amounts for each applicable survey variable.

Measurement error. The most likely source of measurement error is institutional records containing categories different from those on the survey. For example, institutions were asked to report all R&D expenditures by field. The NCSES-designed fields do not always translate to an institution’s departmental structure, and adjustments must be made by the institution in order to complete the survey. Fields were revised for the FY 2016 survey to better reflect the R&D currently being conducted at universities and colleges and make HERD Survey fields more consistent with those used by other NCSES surveys as well as with the National Center for Education Statistics Classification of Instructional Programs (CIP) codes. Details of this change are included in the methodology report and technical notes for the FY 2016 survey. Minor revisions to the locations of some research field examples were also made in FY 2020.

Another source of error is the survey’s category of institutionally funded research. The survey requests that institutions report discretionary internal funds used for research. NCSES discovered through debriefings conducted at the conclusion of the FY 2010 survey that there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Some institutions included all expenditures from separate accounts designated for research; others included only internal R&D projects that are competitively awarded and have detailed budgets. A workshop was held in summer 2012 to discuss these differences in definitional interpretation. Based on the findings from the workshop, the FY 2012 survey was modified to clarify that all expenditures designated for research can be included in this category. This includes expenditures for organized research and expenditures of other funds designated for research but not categorized as organized research. A checklist question (Question 1.1) was also added to encourage the inclusion of all eligible expenditures and to determine the full extent of the variations in reporting across institutions. This question has been on the survey since FY 2012. An analysis of Question 1.1 responses from FY 2016 indicated that the majority of institutions that reported some institutionally funded R&D were including research funds that would not be considered organized research (e.g., 77% included startup funds, bridge funding, or seed funding, and 79% included other departmental funds designated for research). However, many institutions reported that they still could not report institutionally funded research that was not organized research because those funds were not separately accounted for. Therefore, survey totals are missing expenditures for R&D that come from multipurpose accounts, and as such, they represent an undercount of the total amount of internal discretionary funding that institutions make available to conduct R&D.

The reporting of unrecovered indirect costs is another known source of error. The survey requests that the total amount of indirect costs associated with a research grant or contract be calculated and reported, including costs that were not reimbursed by the external funding source. The unrecovered indirect cost is calculated by multiplying the institution’s negotiated indirect cost rate by the corresponding base and then subtracting the actual indirect cost recovery, preferably on a project-by-project basis. In FY 2020, 5.8% of respondents reported unrecovered indirect costs as unavailable. Respondents who were unable to provide values were asked to provide information on their nonresponse. Based on the collected information, survey guidance is revised to encourage response.

It should also be noted that because institutions were asked to include funds passed through to higher education institutions as well as subrecipient funding from higher education institutions, there is double counting included in national and group totals. For example, Institution A's survey included the $2 million passed through to Institution B, and Institution B's survey also included the $2 million in subrecipient funding that it received from Institution A. Overall, institutions reported $3.8 billion in expenditures from subrecipient funding received from other universities in FY 2020 and $3.9 billion in funds passed through to higher education subrecipients in FY 2020. Adjustments are made to R&D totals presented in the NCSES *National Patterns of R&D Resources* publications (https://www.nsf.gov/statistics/natlpatterns/).

Data Comparability (Changes)

Annual data are available for FYs 1972–2020. When the review for consistency between each year's data and submissions in prior years reveals discrepancies, it is sometimes necessary to modify prior years' data. This is especially likely to affect trends for certain institutions that fail to report every year, because current-year data are used to impute prior-year data. For accurate historical data, use only the most recently released data tables. Individuals wishing to analyze trends other than those in the most recent data tables are encouraged to contact the Survey Manager for more information about comparability of data over time.

Changes in survey coverage and population. Before FY 2010, the population included only institutions with R&D expenditures and degree programs in S&E fields. Institutions that performed R&D in only non-S&E fields were excluded from the population. Although not a change in the coverage or population, each campus headed by a campus-level president, chancellor, or equivalent began completing a separate survey in 2010 rather than combining its response with the responses of other campuses in the university system. As a result, the overall number of academic institutions in the population increased from 711 in FY 2009 to 742 in FY 2010.

To compare HERD Survey data across university systems by aggregating member campuses, table 6 shows all institutions in the FY 2020 population, including short-form survey institutions, by state, institutional control, and system.

Universities and colleges can merge or separate, possibly resulting in large changes in data from previous years. For FY 2015, the Indiana University School of Medicine (IUSM) reporting line was changed from the Chancellor of the Indiana University-Purdue University, Indianapolis (IUPUI) campus to the President of Indiana University. As such, the research expenditures for IUSM are now included in the Indiana University–Bloomington figures, resulting in an increase in total R&D expenditures of approximately $280 million for this campus. IUPUI total R&D expenditures decreased from $324 million in FY 2014 to $56 million in FY 2015. In September 2015, Yeshiva University relinquished control of Albert Einstein College of Medicine to Montefiore Health System. As a result, FY 2016 data for Yeshiva University included only 2 months (July–August 2015) of R&D expenditures from the college of medicine. Albert Einstein College of Medicine reported separately for its entire FY 2016 (January–December 2016). Because of this change, FY 2016 research expenditures for Yeshiva University decreased by $260 million. For FY 2017, Yeshiva University included no expenditures from the college of medicine, and total research expenditures decreased by $43 million. In 2016, the Maryland General Assembly approved legislation to create a strategic partnership between University of Maryland (UMD) College Park and UMD Baltimore. The two schools began reporting as one unit, University of Maryland, in FY 2019. In FY 2018, UMD Baltimore reported over $475 million in total R&D expenditures, and UMD College Park reported over $540 million in total R&D expenditures. In FY 2019, the new combined institution reported $1,096 million in total R&D expenditures. In 2019, University of Tennessee reorganized University of Tennessee, Knoxville, Institute of Agriculture, and University of Tennessee, Knoxville. The two schools began reporting as one unit, University of Tennessee, Knoxville, in FY 2020. In FY 2019, University of Tennessee, Institute of Agriculture reported over $71 million in total R&D expenditures, and University of Tennessee, Knoxville reported over $240 million in total R&D expenditures. In FY 2020, the new combined institution reported $320 million in total R&D expenditures.

Changes in questionnaire. Tables include data from the Academic R&D Expenditures Survey (FYs 1972–2009) and the HERD Survey (FYs 2010–20). Analysts should be cautious when examining trend data. Although many variables are similar across the two surveys because of clarification of which funds are to be included in the definition of R&D and the inclusion of non-S&E expenditures, exact comparisons may be misleading. In prior years, the Academic R&D Expenditures Survey collected expenditures for S&E and non-S&E fields separately. Institutions were not always able to provide non-S&E expenditures, and those data were not imputed previously. Also, revisions to the instructions on what types of activities are included as R&D in 2010 may have influenced reported values to varying degrees, depending on the numbers of clinical trials and training grants at an institution. Specific changes are described below:

- For the FY 2012 data collection, NCSES modified the survey instructions to clarify what types of institutionally funded activities should be included in reported data. The instructions explained that all expenditures for R&D from an institution's current operating funds that are separately accounted for should be reported. This includes expenditures separately budgeted for organized research and expenditures of other funds designated for research but not categorized as organized research. The instructions also specified that funds from an institution's 501(c)3 foundation should be reported under institutionally financed research.
- For the FY 2013 collection, the instructions were revised to clarify that funds from foreign and U.S. universities and colleges should be reported under All other sources (Question 1, row f). The instructions also specified that gifts designated by donors for research should be included in Question 1, row f.
- Several changes were made to the FY 2016 questionnaire:
  - Question 16 on the FY 2015 questionnaire, regarding the number of postdocs paid from R&D expenditures, was removed from the survey. Question 2, regarding foreign funding of R&D, was expanded to identify sources of foreign funding. The question now collects R&D expenditures funded by foreign governments, businesses, nonprofit organizations, and higher education (see the definition *foreign sources* for additional information).
  - Questions 9, 11, and 14 include revisions to some R&D field locations to better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys as well as with the CIP codes.
- For the FY 2017 collection, the instructions were revised to clarify that funding from federally funded R&D centers (FFRDCs) should be reported as direct federal funding from the FFRDC's sponsoring agency.
- For the FY 2018 collection, the instructions were revised to clarify that expenditures for institution research administration and support (e.g., office of sponsored programs) should be excluded from the institutionally financed research totals.
- Several changes were made to the FY 2020 questionnaire:
  - Question 15, which asked for a headcount of research personnel, was revised to ask for a headcount by three R&D functions (see the definition *R&D functions* for additional information).
  - Question 16, which asked for the full-time equivalents (FTEs) by three R&D functions, was added to the survey.
  - Institutions were given guidance to include throughout the survey equipment-only R&D awards, such as Major Research Instrumentation grants.
  - Questions 9, 11, and 14 include revisions to the fields of R&D that better reflect the R&D currently being conducted at universities and colleges. The revisions make the HERD Survey fields more consistent with those used by other NCSES surveys.

Changes in reporting procedures or classification. In order to reduce the burden for institutions with minimal amounts of R&D expenditures, NCSES introduced a shorter version of the HERD Survey, beginning with the FY 2012 collection. The short-form survey includes four core questions. For the FY 2020 cycle, the short-form population included 260 institutions that reported R&D expenditures between $150,000 and $1 million during FY 2019. The remainder of the institutions (655) received the full version of the survey.

Short-form survey data for FYs 2012–20 appear only in those tables that specify in their title that the data presented include data from the short-form version of the survey. Data from the short-form survey population are included in the year totals prior to FY 2012, aggregated under "all other surveyed institutions." The total FY 2020 R&D expenditures reported by institutions in the short-form survey population ($139 million) represent 0.2% of the expenditures reported by all institutions ($86.4 billion).

Definitions

- *Clinical trials.* Research studies designed to answer specific questions about the effects of drugs, vaccines, medical devices, tests, treatments, or other therapies for patients. Clinical trials are used to determine safety and effectiveness. Includes Phase I, Phase II, and Phase III clinical trials with human patients but excludes Phase IV clinical trials.
- *Contracts.* Legal commitments in which a good or service was provided by the reporting institution and benefited the sponsor. The sponsor specified the deliverables and gained the rights to the results.
- *Federal agency.* Any agency of the U.S. government. Expenditures were reported by six specific agency funding sources (the Department of Agriculture; Department of Defense; Department of Energy; Department of Health and Human Services, including the National Institutes of Health; National Aeronautics and Space Administration; and National Science Foundation). Any expenditures funded by other federal agencies were reported under Other. The names of agencies included in the Other category are also requested.
- *Fields of R&D.* A list of the 40 fields of R&D reported on can be found on the survey questionnaire. In the data tables, the fields are grouped into 10 major areas: computer and information sciences; engineering; geosciences, atmospheric sciences, and ocean sciences; life sciences; mathematics and statistics; physical sciences; psychology; social sciences; other sciences; and non-science and engineering.
- *Fiscal year.* Institution's financial year.
- *Foreign sources:*
  - *Foreign government.* All levels of foreign government, including national, regional, municipal, or other local government.
  - *Business.* Foreign for-profit organizations. Projects sponsored by a U.S. location of a foreign company were not considered foreign. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
  - *Nonprofit organizations*. Foreign nonprofit foundations and organizations, except higher education institutions. Funds from foreign universities were reported under Higher education.
  - *Higher education.* Foreign colleges and universities and units owned, operated, and controlled by such institutions.
  - *All other sources.* International governmental organizations located in the United States, such as the United Nations, the World Bank, and the International Monetary Fund, and all other entities sending funds to the United States from a location outside the United States and its territories.
- *Full-time equivalents (FTEs)*. Calculated as the total working effort spent on research during a specific period divided by the total effort representing a full-time schedule within the same period.

- *Medical schools.* A medical school awards MD or DO degrees. Expenditures from projects assigned to the medical school or to research centers that were organizationally part of the medical school were included.
- *Pass-through entity.* Organizations that pass through grant or contract funds to subrecipient organizations. Vendor relationships were not included.
- *Research and development (R&D).* R&D activity is creative and systematic work undertaken in order to increase the stock of knowledge—including knowledge of humankind, culture, and society—and to devise new applications of available knowledge. R&D covers three activities: basic research, applied research, and experimental development. R&D does not include public service or outreach programs, curriculum development (unless included as part of an overall research project), or non-research training grants. R&D as measured on this survey does not include capital projects (i.e., construction or renovation of research facilities).
- *R&D expenditures.* Expenditures for R&D activities from the institution's current operating funds that were separately accounted for. For the purposes of the survey, R&D includes expenditures for organized research as defined by 2 CFR 220 Part 200 Appendix III and expenditures from funds designated for research. Expenditures came from internal or external funding and included recovered and unrecovered indirect costs. Funds passed through to subrecipient organizations were also included. R&D was excluded if it was conducted by university faculty or staff at outside institutions and was not accounted for in the reporting institution's financial records.
- *R&D functions:*
  - *Researchers.* Professionals engaged in the conception or creation of new knowledge, products, processes, methods, and systems and also in the management of the projects concerned. Researchers contribute more to the creative aspects of R&D, whereas technicians provide technical support.
  - *R&D technicians.* Persons whose main tasks require technical knowledge and experience in one or more fields of science or engineering but who contribute to R&D by performing technical tasks such as computer programming, data analysis, ensuring accurate testing, operating lab equipment, and preparing and processing samples under the supervision of researchers.
  - *R&D support staff.* Employees who are not directly involved with the conduct of a research project but who support the researchers and technicians. These employees might include clerical staff, financial and personnel administrators, report writers, patent agents, safety trainers, equipment specialists, and other related employees.
- *Sources of funds:*
  - *U.S. federal government.* Any agency of the U.S. government. Federal funds that were passed through to the reporting institution from another institution were included.
  - *State and local government.* Any state, county, municipality, or other local government entity in the United States, including state health agencies. State funds that supported R&D at agricultural and other experiment stations were included. Public institutions reported state appropriations restricted for R&D activities in this category.
  - *Business.* Domestic or foreign for-profit organizations. Funds from a company's nonprofit foundation were not reported here; they were reported under Nonprofit organizations.
  - *Nonprofit organizations.* Domestic or foreign nonprofit foundations and organizations, except universities and colleges. Funds from the reporting institution's 501(c)3 foundation were reported under Institutional funds. Funds from other universities and colleges were reported under All other sources.
  - *Institutional funds.* Includes institutionally financed research (all R&D funded by the institution from accounts that are only used for research, excluding institution research administration and support), cost sharing (committed), and unrecovered indirect costs (the portion of indirect costs associated with a sponsored project that was not reimbursed by the sponsor in accordance with the institution's negotiated indirect cost rate).

  - *All other sources.* Sources not reported in other categories, such as funds from foreign governments, foreign or U.S. universities, and gifts designated by the donors for research.
- *Subrecipient.* The subrecipient for an award carries out the work but receives the funds from a pass-through entity rather than directly from the original funding source. Subrecipients tend to be the coauthors of publications, writers of technical reports discussing findings, inventors, and similar. Vendor relationships were not included.
- *Type of cost.* R&D expenditures were reported in the following categories:
  - *Salaries, wages, and fringe benefits.* Includes compensation for all R&D personnel whether full time or part time; temporary or permanent; including salaries, wages, and fringe benefits paid from institution funds and from external support.
  - *Software purchases, noncapitalized and capitalized.* Includes payments for all software—both purchases of software packages and license fees for systems.
  - *Capitalized equipment.* Includes payments for movable equipment exceeding the institution's capitalization threshold, including ancillary costs such as delivery and setup.
  - *Pass-throughs to other organizations.* See the definition for *subrecipient*.
  - *Other direct costs.* Other costs that do not fit into one of the above categories, including (but not limited to) travel, tuition waivers, services such as consulting, computer usage fees, and supplies.
  - *Indirect costs.* Includes both recovered and unrecovered indirect costs.
- *Type of R&D.* R&D expenditures were reported in the following categories:
  - *Basic research.* Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts, without any particular application or use in view.
  - *Applied research.* Original investigation undertaken in order to acquire new knowledge. It is directed primarily toward a specific, practical aim or objective.
  - *Experimental development.* Systematic work, drawing on knowledge gained from research and practical experience and producing additional knowledge, which is directed toward producing new products or processes or toward improving existing products or processes.

Technical Tables

Table	Title
A-1	Institution name changes between FY 2019 and FY 2020 Higher Education Research and Development Survey
A-2	Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than $150,000 in separately accounted for R&D expenditures: FY 2020
A-3	Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2015–20

Response rates: FY 2020

Table	Title
A-4	Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2020
A-5	Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2020

Imputed amounts for higher education R&D expenditures: FY 2020

Table	Title
A-6	Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2020
A-7	Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2020
A-8	Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2020
A-9	Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2020
A-10	Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2020
A-11	Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2020

Imputed amounts for federally funded higher education R&D expenditures: FY 2020

Table	Title
A-12	Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2020

Table	Title
A-13	Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2020
A-14	Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2020
A-15	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2020
A-16	Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2020
A-17	Imputed amounts for higher education R&D expenditures, by type of cost: FY 2020
A-18	Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2020

Response details: FY 2020

Table	Title
A-19	Federally financed higher education R&D expenditures from federal agencies not specified in question 9: FY 2020
A-20	Response summary for question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2020

TABLE A-1

Institution name changes between FY 2019 and FY 2020 Higher Education Research and Development Survey

(Institution name)

FY 2019 survey	FY 2020 survey
Augustana C., Rock Island	Augustana C.
Coker C.	Coker U.
Dordt C.	Dordt U.
Elmhurst C.	Elmhurst U.
Lasell C.	Lasell U.
New York Chiropractic C.	Northeast C. of Health Sciences
Multiple campuses	U. Tennessee, Knoxville
U. Tennessee, Knoxville	
U. Tennessee, Knoxville, Institute of Agriculture	
Western State Colorado U.	Western Colorado U.
Wheeling Jesuit U.	Wheeling U.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-2

Total and federally financed higher education R&D expenditures at surveyed institutions reporting less than $150,000 in separately accounted for R&D expenditures: FY 2020

(Dollars in thousands)

Institution	Total	Federally financed
All institutions	1,290	693
Antelope Valley C.	0	0
Baldwin Wallace U.	9	0
Beloit C.	44	16
Benedictine U.	134	26
Dakota Wesleyan U.	106	106
Dominican U.	123	123
Life Chiropractic C.-West	25	0
Logan U.	146	0
Maine Maritime Academy	81	81
North Central C.	96	0
Northwestern Health Sciences U.	60	0
Rose-Hulman Institute of Technology	148	118
Southwest C. of Naturopathic Medicine and Health Sciences	60	0
Texas A&M U.-Texarkana	6	0
U. California, Hastings C. of Law	0	0
U. Maine, Presque Isle	129	119
Wabash C.	123	104

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-3

Institutions surveyed for the Higher Education Research and Development Survey, by highest degree granted and survey population: FYs 2015–20

(Number)

Highest degree granted	2015		2016		2017		2018		2019		2020	
	Short form population[a]	Standard form population	Short form population[a]	Standard form population	Short form population[a]	Standard form population	Short form population[a]	Standard form population	Short form population[a]	Standard form population	Short form population[a]	Standard form population
All respondents	258	640	257	639	255	643	265	646	267	647	260	655
Doctorate	56	456	63	454	66	464	76	467	73	473	77	474
Professional	43	36	40	44	42	35	44	34	45	32	43	37
Master's	105	106	101	106	101	105	96	102	104	95	96	98
Bachelor's	54	42	53	35	46	39	49	43	45	47	44	46

[a] Institutions reporting less than $1 million received a shorter version of the survey questionnaire in FYs 2015–20.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.

TABLE A-4

Response rates for the Higher Education Research and Development Survey, by survey population, highest degree granted, and institutional control: FY 2020

(Number and percent)

Survey population and type of institution	Number in survey universe	Complete responses	Partial responses	Total responses	Response rate (%)
All respondents	915	444	434	878	96.0
Standard form institutions	655	213	422	635	96.9
Doctorate	474	132	332	464	97.9
Professional	37	18	18	36	97.3
Master's	98	43	48	91	92.9
Bachelor's	46	20	24	44	95.7
Public	415	134	274	408	98.3
Private	240	79	148	227	94.6
Short form institutions	260	231	12	243	93.5
Doctorate	77	68	4	72	93.5
Professional	43	38	2	40	93.0
Master's	96	86	4	90	93.8
Bachelor's	44	39	2	41	93.2
Public	107	101	3	104	97.2
Private	153	130	9	139	90.8

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-5

Response rates for the Higher Education Research and Development Survey, by survey form and question: FY 2020

(Number and percent)

Survey form and question	All respondents	Complete question responses	Partial question responses	Total question responses	Question nonresponses	Response rate (%)
Standard form						
Question 1	635	565	70	635	0	100.0
Question 2	635	604	22	626	9	98.6
Question 3	635	615	0	615	20	96.9
Question 4	635	634	0	634	1	99.8
Question 5	635	631	1	632	3	99.5
Question 6	635	579	7	586	49	92.3
Question 7	635	580	47	627	8	98.7
Question 8	635	598	30	628	7	98.9
Question 9	635	630	5	635	0	100.0
Question 10	635	630	0	630	5	99.2
Question 11	635	610	25	635	0	100.0
Question 12	635	489	144	633	2	99.7
Question 13	635	621	2	623	12	98.1
Question 14	635	615	6	621	14	97.8
Question 15	635	464	37	501	134	78.9
Question 16	635	321	20	341	294	53.7
Short form						
Question 1	243	233	10	243	0	100.0
Question 2	243	241	0	241	2	99.2
Question 3	243	240	1	241	2	99.2
Question 4	243	241	0	241	2	99.2

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-6

Imputed amounts for total higher education R&D expenditures, by survey population and highest degree granted: FY 2020

(Dollars in thousands)

Survey population and highest degree granted	All R&D expenditures	Imputed amount	Imputed amount as % of total
All universities and colleges	86,435,054	127,459	0.1
Standard form institutions	86,296,178	120,807	0.1
Doctorate-granting institutions	85,607,541	94,916	0.1
Nondoctorate-granting institutions	688,637	25,891	3.8
Short form institutions	138,876	6,652	4.8
Doctorate-granting institutions	44,698	1,285	2.9
Nondoctorate-granting institutions	94,178	5,367	5.7

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-7

Imputed amounts for total higher education R&D expenditures, by survey population and source of funds: FY 2020

(Dollars in thousands)

Survey population and source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions			
All sources	86,296,178	120,807	0.1
Federal government	46,143,829	64,135	0.1
State and local government	4,596,633	5,169	0.1
Institution funds	21,946,790	41,054	0.2
Institutionally financed research	14,570,011	26,540	0.2
Cost sharing	1,633,683	4,287	0.3
Unrecovered indirect costs	5,743,096	10,227	0.2
Business	5,184,925	3,428	0.1
Nonprofit organizations	5,745,238	3,866	0.1
All other sources	2,678,763	3,155	0.1
Short form institutions			
All sources	138,876	6,652	4.8
Federal government	76,425	3,454	4.5
State and local government	8,674	198	2.3
Institution funds	32,945	2,227	6.8
Institutionally financed research	27,247	2,045	7.5
Cost sharing	2,267	64	2.8
Unrecovered indirect costs	3,431	118	3.4
Business	4,259	174	4.1
Nonprofit organizations	13,247	716	5.4
All other sources	3,326	178	5.4

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-8

Imputed amounts for higher education R&D expenditures from foreign sources, by source of funds: FY 2020

(Dollars in thousands)

Source of foreign funding	All R&D expenditures	Imputed amount	Imputed amount as % of total
All foreign funds	1,304,607	42,145	3.2
Foreign government	296,658	7,966	2.7
Business	625,962	56,283	9.0
Nonprofit organizations	252,230	16,561	6.6
Higher education institutions	106,741	8,334	7.8
All other sources	23,016	5,243	22.8

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-9

Imputed amounts for externally financed higher education R&D expenditures, by type of agreement: FY 2020

(Dollars in thousands)

Type of agreement	All R&D expenditures	Imputed amount	Imputed amount as % of total
All agreements	64,349,388	79,753	0.1
Contracts	15,485,184	581,662	3.8
Grants, reimbursements, and all other agreements	48,864,204	2,151,846	4.4

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-10

Imputed amounts for higher education R&D expenditures in a medical school, by institutional control: FY 2020

(Dollars in thousands)

Institutional control	All R&D expenditures	Imputed amount	Imputed amount as % of total
All institutions	30,804,565	29,586	0.1
Public	16,750,471	0	0.0
Private	14,054,094	29,586	0.2

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-11

Imputed amounts for higher education R&D expenditures in clinical trials, by source of funds: FY 2020

(Dollars in thousands)

Source of funds	All R&D expenditures	Imputed amount	Imputed amount as % of total
All sources	3,320,934	59,219	1.8
Federally financed	1,310,818	31,537	2.4
Nonfederally financed	2,010,116	60,388	3.0

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-12

Imputed amounts for total and federally financed higher education R&D expenditures, by type of R&D: FY 2020

(Dollars in thousands)

Type of R&D	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All types of R&D	86,296,178	120,807	0.1	46,143,829	64,135	0.1
Basic research	54,132,952	9,818,485	18.1	29,311,388	6,310,513	21.5
Applied research	24,118,269	4,160,213	17.2	13,074,455	2,604,537	19.9
Experimental development	8,044,957	1,175,433	14.6	3,757,986	655,502	17.4

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-13

Imputed amounts for total and federally financed higher education R&D expenditures received as a subrecipient, by survey population and type of pass-through entity: FY 2020

(Dollars in thousands)

Survey population and type of pass-through entity	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All pass-through entities[a]	7,825,942	1,150,403	14.0	6,619,717	58,714	0.9
From educational pass-through entities	3,821,399	468,295	11.3	3,420,556	23,737	0.7
From business	1,209,172	187,978	14.8	950,588	11,020	1.2
From nonprofit organizations	1,496,831	191,672	12.5	1,158,578	13,376	1.2
From other pass-through entities	1,298,540	186,183	14.0	1,089,995	16,993	1.6
Short form institutions[b]						
From educational pass-through entities	17,819	568	3.2	15,574	552	3.5

[a] Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.
[b] Institutions in the short form population were asked to provide R&D expenditures received as a subrecipient from educational pass-through entities only.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-14

Imputed amounts for total and federally financed higher education R&D expenditures passed through, by survey population and type of subrecipient: FY 2020

(Dollars in thousands)

Survey population and type of subrecipient	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Standard form institutions						
All subrecipients[a]	7,053,612	15,783	0.2	5,962,370	14,319	0.2
To higher education subrecipients	3,866,145	562,237	14.5	3,404,432	457,410	13.4
To businesses	1,338,352	190,646	14.2	1,071,398	145,146	13.5
To nonprofit organizations	1,241,079	159,312	12.8	1,044,447	118,728	11.4
To other pass-through entities	608,036	129,506	21.3	442,093	89,146	20.2
Short form institutions[b]						
To higher education subrecipients	2,158	95	4.4	1,778	87	4.9

[a] Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.
[b] Institutions in the short form population were asked to provide R&D expenditures passed through to educational subrecipients only.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-15

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2020

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	86,296,178	120,807	0.1	46,143,829	64,135	0.1
All science and engineering	81,260,563	842,329	1.0	44,899,794	75,154	0.2
Computer and information sciences	2,923,149	26,964	0.9	2,000,937	1,573	0.1
Geosciences, atmospheric sciences, and ocean sciences	3,281,251	22,311	0.7	2,109,065	3,236	0.2
Atmospheric science and meteorology	612,890	4,919	0.8	471,158	690	0.1
Geological and earth sciences	1,159,627	9,405	0.8	696,991	694	0.1
Ocean sciences and marine sciences	1,136,259	5,948	0.5	713,086	1,847	0.3
Geosciences, atmospheric sciences, and ocean sciences nec	372,475	2,039	0.5	227,830	5	0.0
Life sciences	49,640,508	624,655	1.3	26,254,002	51,485	0.2
Agricultural sciences	3,626,162	8,020	0.2	1,072,057	3,959	0.4
Biological and biomedical sciences	15,761,876	151,441	1.0	9,339,917	30,730	0.3
Health sciences	28,026,662	462,853	1.7	14,733,751	16,271	0.1
Natural resources and conservation	900,697	4,365	0.5	410,120	2,322	0.6
Life sciences nec	1,325,111	24,781	1.9	698,157	19,864	2.8
Mathematics and statistics	798,975	7,983	1.0	486,259	1,595	0.3
Physical sciences	5,667,046	44,473	0.8	3,789,237	7,204	0.2
Astronomy and astrophysics	780,080	8,819	1.1	542,725	265	0.0
Chemistry	1,926,772	12,781	0.7	1,166,743	1,879	0.2
Materials science	252,193	664	0.3	156,894	95	0.1
Physics	2,434,467	17,794	0.7	1,736,916	4,356	0.3
Physical sciences nec	273,534	4,415	1.6	185,959	609	0.3
Psychology	1,357,081	12,300	0.9	808,565	673	0.1
Social sciences	2,947,338	16,436	0.6	969,278	2,983	0.3
Anthropology	119,329	595	0.5	38,847	6	0.0
Economics	562,192	1,092	0.2	121,461	125	0.1
Political science and government	425,267	1,294	0.3	78,462	49	0.1
Sociology, demography, and population studies	591,754	6,281	1.1	253,213	1,351	0.5
Social sciences nec	1,248,796	7,174	0.6	477,295	1,452	0.3
Sciences nec	952,459	4,341	0.5	361,560	1,561	0.4
Engineering	13,692,756	82,866	0.6	8,120,891	4,844	0.1
Aerospace, aeronautical, and astronautical engineering	1,295,759	6,257	0.5	957,795	1,275	0.1
Bioengineering and biomedical engineering	1,468,229	10,740	0.7	906,145	398	0.0
Chemical engineering	999,312	6,242	0.6	521,758	296	0.1
Civil engineering	1,422,418	6,779	0.5	606,519	437	0.1
Electrical, electronic, and communications engineering	3,048,420	24,446	0.8	2,143,397	1,201	0.1
Industrial and manufacturing engineering	588,127	3,013	0.5	384,795	1	0.0
Mechanical engineering	1,812,916	15,570	0.9	1,160,117	621	0.1
Metallurgical and materials engineering	816,610	5,092	0.6	504,528	14	0.0
Engineering nec	2,240,965	5,355	0.2	935,837	776	0.1

TABLE A-15

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the standard form population, by R&D field: FY 2020

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All non-science and engineering	5,035,615	45,338	0.9	1,244,035	3,097	0.2
Business management and business administration	878,721	6,672	0.8	74,126	286	0.4
Communication and communications technologies	191,813	1,370	0.7	40,830	34	0.1
Education	1,603,978	7,569	0.5	667,043	1,656	0.2
Humanities	563,007	6,542	1.2	54,155	483	0.9
Law	267,565	214	0.1	26,697	16	0.1
Social work	307,145	1,872	0.6	140,836	107	0.1
Visual and performing arts	171,605	823	0.5	15,140	15	0.1
Non-science and engineering nec	1,051,781	20,276	1.9	225,208	500	0.2

nec = not elsewhere classified.

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-16

Imputed amounts for total and federally financed higher education R&D expenditures at institutions in the short form population, by R&D field: FY 2020

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	138,876	6,652	4.8	76,425	3,454	4.5
All science and engineering	114,804	5,986	5.2	68,434	4,016	5.9
Computer and information sciences	5,768	158	2.7	4,224	108	2.6
Geosciences, atmospheric sciences, and ocean sciences	8,239	113	1.4	5,258	93	1.8
Life sciences	45,796	3,965	8.7	24,408	2,634	10.8
Mathematics and statistics	3,329	294	8.8	1,763	252	14.3
Physical sciences	18,372	706	3.8	12,224	548	4.5
Psychology	3,703	154	4.2	1,697	84	4.9
Social sciences	19,231	356	1.9	13,766	131	1.0
Sciences nec	3,815	107	2.8	1,518	65	4.3
Engineering	6,551	133	2.0	3,576	101	2.8
All non-science and engineering	24,072	1,855	7.7	7,991	320	4.0

nec = not elsewhere classified.

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-17

Imputed amounts for higher education R&D expenditures, by type of cost: FY 2020

(Dollars in thousands)

Type of cost	All R&D expenditures	Imputed amount	Imputed amount as % of total
All costs	86,296,178	120,807	0.1
Direct costs	66,514,804	2,639,031	4.0
Salaries, wages, and fringe benefits	38,703,867	350,677	0.9
Software purchases	158,145	4,173	2.6
Noncapitalized	144,023	3,795	2.6
Capitalized	14,122	378	2.7
Capitalized equipment	2,588,624	8,036	0.3
Passed through to subrecipients	7,053,612	15,783	0.2
Other direct costs	18,010,556	584,860	3.2
Indirect costs	19,781,374	132,601	0.7

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-18

Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2020

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
All R&D fields	2,588,624	8,036	0.3	1,201,365	4,323	0.4
All science and engineering	2,528,918	96,260	3.8	1,195,886	39,600	3.3
Computer and information sciences	164,385	9,387	5.7	113,808	2,562	2.3
Geosciences, atmospheric sciences, and ocean sciences	136,963	3,359	2.5	91,416	929	1.0
Atmospheric science and meteorology	20,841	661	3.2	16,572	150	0.9
Geological and earth sciences	52,636	1,496	2.8	29,953	485	1.6
Ocean sciences and marine sciences	57,836	1,155	2.0	42,700	263	0.6
Geosciences, atmospheric sciences, and ocean sciences nec	5,650	47	0.8	2,191	31	1.4
Life sciences	990,630	19,030	1.9	373,658	11,729	3.1
Agricultural sciences	98,162	282	0.3	24,075	157	0.7
Biological and biomedical sciences	455,430	10,842	2.4	193,815	6,868	3.5
Health sciences	382,382	7,826	2.0	135,695	4,687	3.5
Natural resources and conservation	11,673	48	0.4	4,225	13	0.3
Life sciences nec	42,983	32	0.1	15,848	4	0.0
Mathematics and statistics	7,907	3,507	44.4	4,158	1,280	30.8
Physical sciences	409,342	16,685	4.1	256,469	6,625	2.6
Astronomy and astrophysics	35,304	4,196	11.9	18,802	1,963	10.4
Chemistry	136,354	1,102	0.8	75,360	663	0.9
Materials science	19,654	199	1.0	11,453	199	1.7
Physics	184,112	8,866	4.8	125,708	3,434	2.7
Physical sciences nec	33,918	2,322	6.8	25,146	366	1.5
Psychology	22,078	495	2.2	8,666	260	3.0
Social sciences	14,414	490	3.4	2,767	224	8.1
Anthropology	2,843	5	0.2	145	1	0.7
Economics	2,422	33	1.4	167	6	3.6
Political science and government	886	21	2.4	140	2	1.4
Sociology, demography, and population studies	2,108	225	10.7	906	127	14.0
Social sciences nec	6,155	206	3.3	1,409	88	6.2
Sciences nec	41,326	1,546	3.7	9,128	547	6.0
Engineering	741,873	41,761	5.6	335,816	15,444	4.6
Aerospace, aeronautical, and astronautical engineering	62,078	4,759	7.7	37,169	1,575	4.2
Bioengineering and biomedical engineering	56,178	1,284	2.3	26,692	715	2.7
Chemical engineering	53,400	600	1.1	23,898	258	1.1
Civil engineering	39,656	319	0.8	17,784	131	0.7
Electrical, electronic, and communications engineering	138,659	19,213	13.9	88,821	6,458	7.3
Industrial and manufacturing engineering	22,505	3,511	15.6	15,311	1,150	7.5
Mechanical engineering	95,127	8,688	9.1	52,675	4,001	7.6
Metallurgical and materials engineering	58,883	694	1.2	35,461	264	0.7
Engineering nec	215,387	2,695	1.3	38,005	892	2.3
All non-science and engineering	59,706	893	1.5	5,479	150	2.7

TABLE A-18

Imputed amounts for total and federally financed higher education R&D equipment expenditures, by R&D field: FY 2020

(Dollars in thousands)

R&D field	Total			Federally financed		
	All R&D expenditures	Imputed amount	Imputed amount as % of total	All R&D expenditures	Imputed amount	Imputed amount as % of total
Business management and business administration	4,885	137	2.8	165	20	12.1
Communication and communications technologies	1,208	10	0.8	106	1	0.9
Education	8,660	301	3.5	937	65	6.9
Humanities	4,108	154	3.7	310	33	10.6
Law	667	32	4.8	106	0	0.0
Social work	1,177	6	0.5	103	4	3.9
Visual and performing arts	1,768	19	1.1	320	0	0.0
Non-science and engineering nec	37,233	234	0.6	3,432	27	0.8

nec = not elsewhere classified.

Note(s):
Imputation rate at total level is lower than imputation rates at detail levels because some institutions could provide totals but not details. This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-19

Federally financed higher education R&D expenditures from federal agencies not specified in question 9: FY 2020

(Dollars in thousands)

Federal agency	R&D expenditures
All other federal agencies	3,209,721
Agency for International Development	201,771
Appalachian Regional Commission	703
Central Intelligence Agency	5,349
Consumer Product Safety Commission	295
Corporation for National and Community Service	7,660
Consumer Financial Protection Bureau	41
Department of Commerce	691,861
Department of Defensea	1,109
Department of Education	612,213
Department of Homeland Security	156,020
Department of Housing and Urban Development	14,403
Department of Justice	130,297
Department of Labor	24,914
Department of State	60,579
Department of the Interior	289,177
Department of the Treasury	7,261
Department of Transportation	385,441
Department of Veterans Affairs	94,386
Environmental Protection Agency	81,127
Executive Office of the President	8,032
Federal Communications Commission	1,417
Federal Trade Commission	14
General Services Administration	56,298
Gulf Coast Ecosystem Restoration Council	12
Institute of Museum and Library Services	8,496
Library of Congress	137
Medicare Payment Advisory Commission	36
Millennium Challenge Corporation	60
National Archives and Records Administration	1,424
National Endowment for the Arts	1,666
National Endowment for the Humanities	14,119
National Science Foundation[a]	8
Northern Border Regional Commission	15
Nuclear Regulatory Commission	7,018
Office of Personnel Management	3,002
Office of the Director of National Intelligence	36,245
Small Business Administration	21,212
Smithsonian Institution	3,538
Social Security Administration	8,491
Tennessee Valley Authority	906
U.S. Agency for Global Media	65
U.S. Institute of Peace	257
U.S. Postal Service	425
U.S. Securities and Exchange Commission	1,164
Other agencies not listed[b]	271,057

[a] This table includes a small amount of expenditures that originated from the Department of Defense and the National Science Foundation, which are explicitly included in Question 9. These expenditures were submitted by one institution that did not move those expenditures to Question 9 before survey close.

[b] Some funding sources were not identified for security reasons or because the original source was not known.

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

TABLE A-20

Response summary for question 13, capitalization thresholds, by highest degree granted, institutional control, and capitalization threshold: FY 2020

(Number)

Capitalization thresholds	All institutions	Highest degree granted		Institutional control	
		Doctorate	Nondoctorate	Public	Private
Equipment					
Do not capitalize	9	4	5	4	5
500	2	2	0	0	2
1,000	13	8	5	3	10
1,500	2	1	1	0	2
2,000	11	4	7	1	10
2,500	9	6	3	1	8
3,000	16	14	2	2	14
3,500	1	1	0	1	0
5,000	531	404	127	378	153
10,000	15	10	5	3	12
15,000	1	0	1	0	1
25,000	6	1	5	0	6
50,000	1	1	0	0	1
100,000	1	0	1	1	0
250,000	4	2	2	4	0
1,000,000	1	0	1	1	0
Software					
Do not capitalize	100	65	35	58	42
500	2	1	1	0	2
1,000	11	6	5	4	7
1,500	2	1	1	0	2
2,000	6	3	3	0	6
2,500	5	4	1	0	5
3,000	13	10	3	4	9
5,000	273	195	78	166	107
10,000	19	11	8	6	13
15,000	1	0	1	0	1
20,000	1	0	1	0	1
25,000	11	7	4	3	8
50,000	11	11	0	6	5
75,000	2	2	0	1	1
100,000	96	81	15	90	6
140,000	1	1	0	1	0
200,000	3	3	0	3	0
250,000	17	15	2	14	3
300,000	1	1	0	0	1
400,000	3	3	0	3	0
500,000	18	17	1	16	2
1,000,000	22	16	6	21	1
4,000,000	2	2	0	2	0
5,000,000	1	1	0	1	0

Note(s):
This table includes only institutions reporting $1 million or more in total R&D expenditures in FY 2019. Institutions reporting less than $1 million in total R&D expenditures in FY 2019 completed a shorter version of the survey form in FY 2020 that did not include this question.

Source(s):
National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2020.

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